THOMSON 33MS21E

MODEL

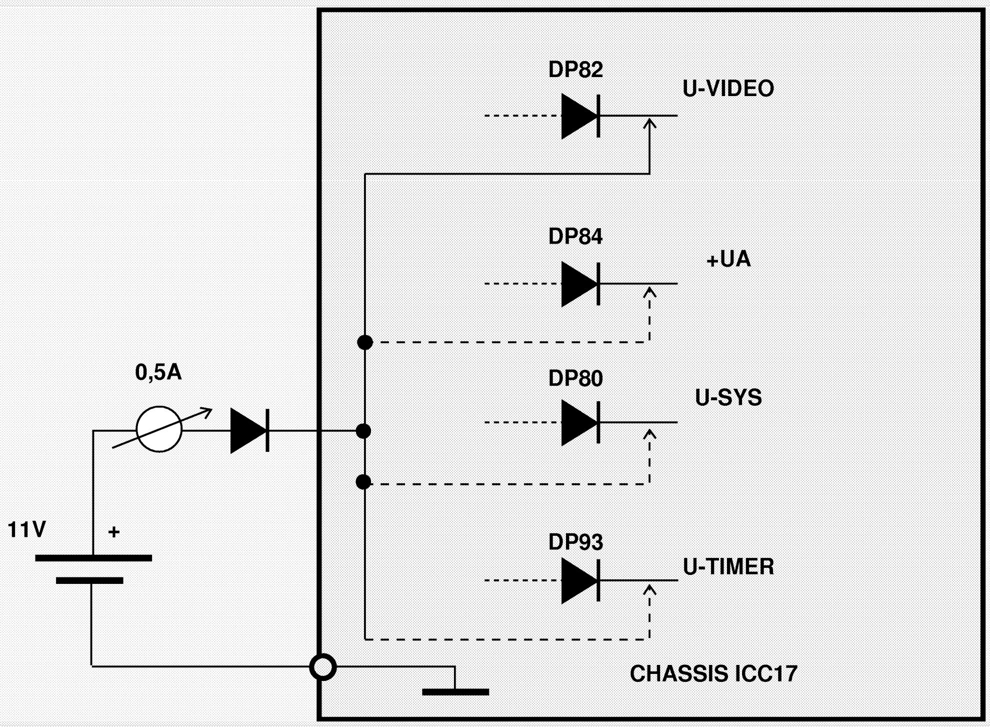
SERVICE MANUAL

SECONDARY DC-VOLTAGES

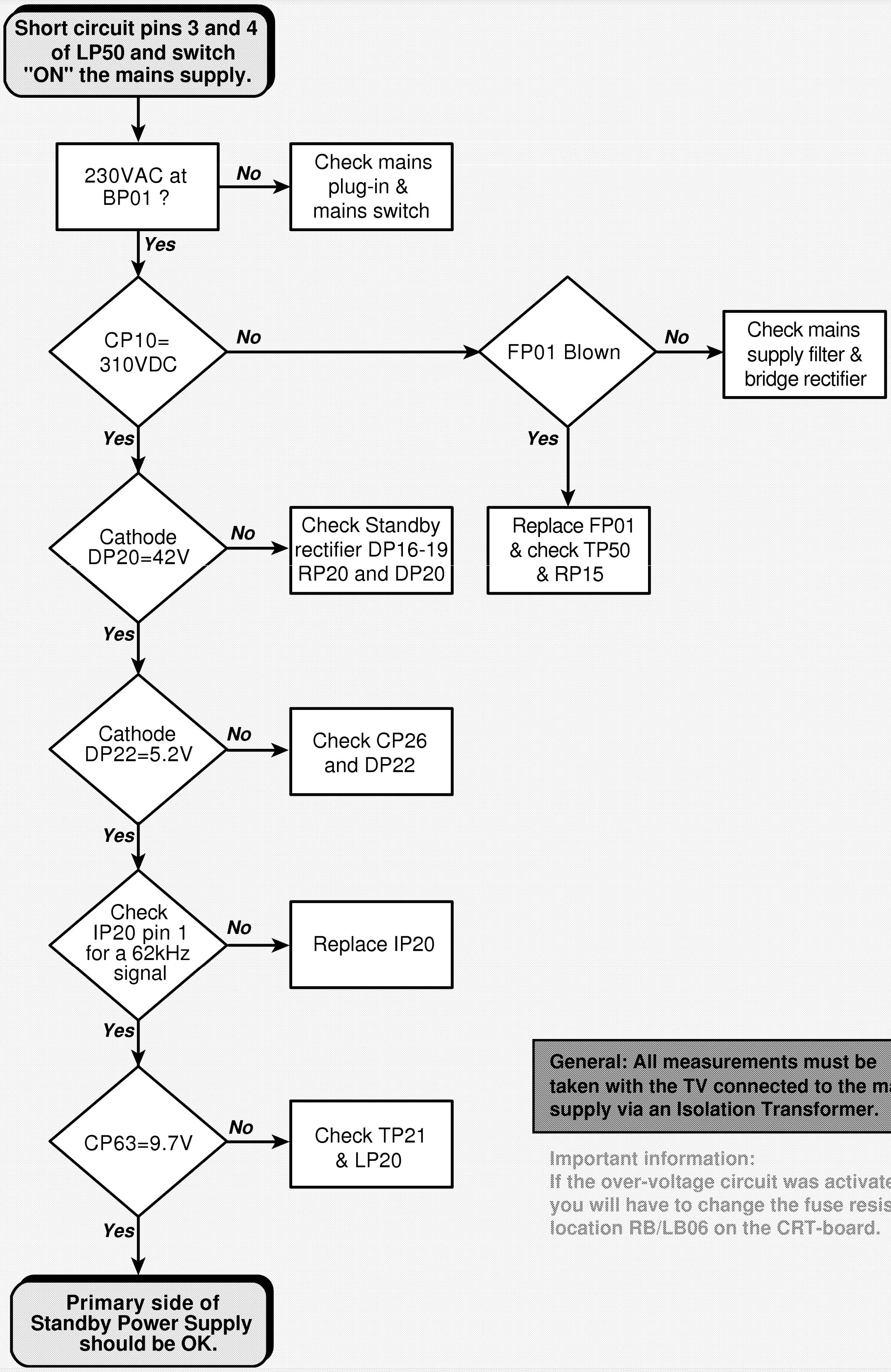
All measurements in this chapter must be done WITHOUT the mains supply connected to the TV.

Test circuit:

The external voltage source is provided by a variable DC-power supply with its output voltage set to 11V and the current limitation set to 500mA's. The negative terminal of the DC-power supply must be directly connected to the chassis secondary ground plane. The positive terminal of the DC-power supply is first connected to an ammeter and then the anode of an isolation diode. The cathode of the isolation diode is then connected to the load on the chassis as shown below. Measure the current drawn by each load tested.



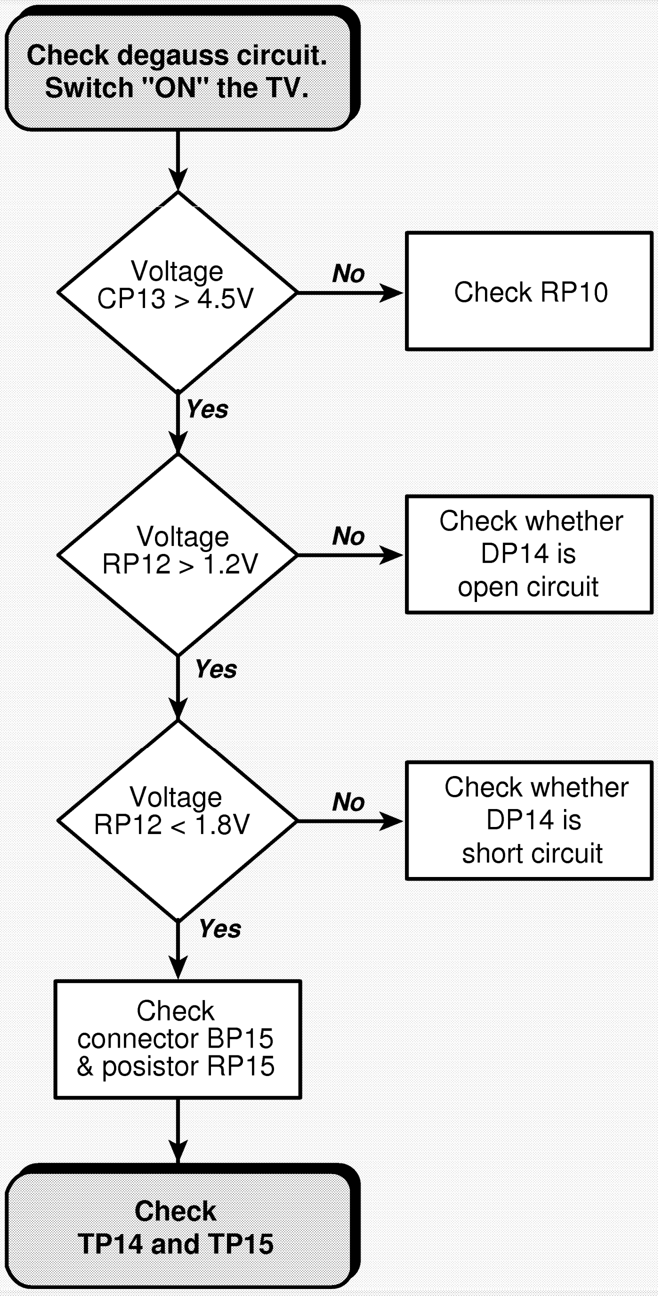
STANDBY POWER SUPPLY - PRIMARY SIDE


Short circuit pins 3 and 4 of LP50 and switch "ON" the mains supply.
230VAC at BP01 ?
No
Check mains plug-in & mains switch
Yes
CP10= 310VDC
No
FP01 Blown
No
Check mains supply filter & bridge rectifier
Yes
Replace FP01 & check TP50 & RP15
Yes
Cathode DP20=42V
No
Check Standby rectifier DP16-19 RP20 and DP20
Yes
Cathode DP22=5.2V
No
Check CP26 and DP22
Yes
Check IP20 pin 1 for a 62kHz signal
No
Replace IP20
Yes
CP63=9.7V
No
Check TP21 & LP20
Yes
Primary side of Standby Power Supply should be OK.

General: All measurements must be taken with the TV connected to the mains supply via an Isolation Transformer.

Important information:
If the over-voltage circuit was activated, you will have to change the fuse resistor at location RB/LB06 on the CRT-board.

DEGAUSSING CIRCUIT

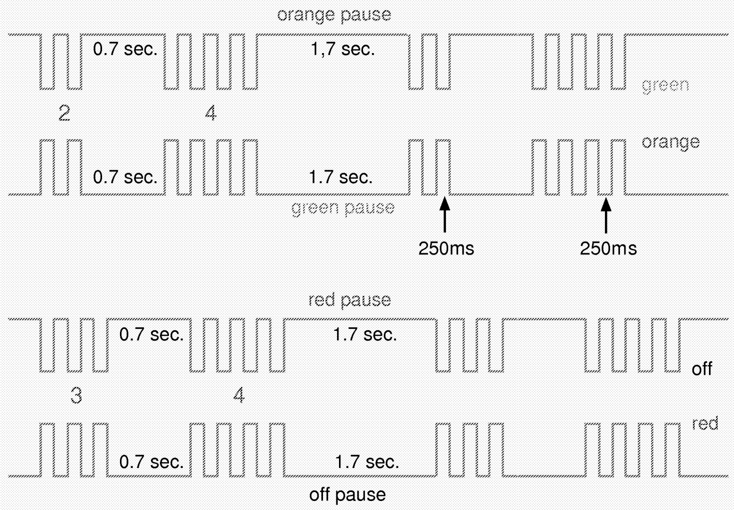

Check degauss circuit.
Switch "ON" the TV.
Voltage
CP13 > 4.5V
No
Check RP10
Yes
Voltage
RP12 > 1.2V
No
Check whether
DP14 is
open circuit
Yes
Voltage
RP12 < 1.8V
No
Check whether
DP14 is
short circuit
Yes
Check
connector BP15
& posistor RP15
Check
TP14 and TP15

GENERAL INFORMATION - LED BEHAVIOUR

LED FLASHES

Error message transmission.
The error codes are signalled by the TV's red LED .

Count the number of flashes : the error code is two burst separated by a pause of 0.7 sec. and repeated four times. There is 1.7 sec between each codes sequence.

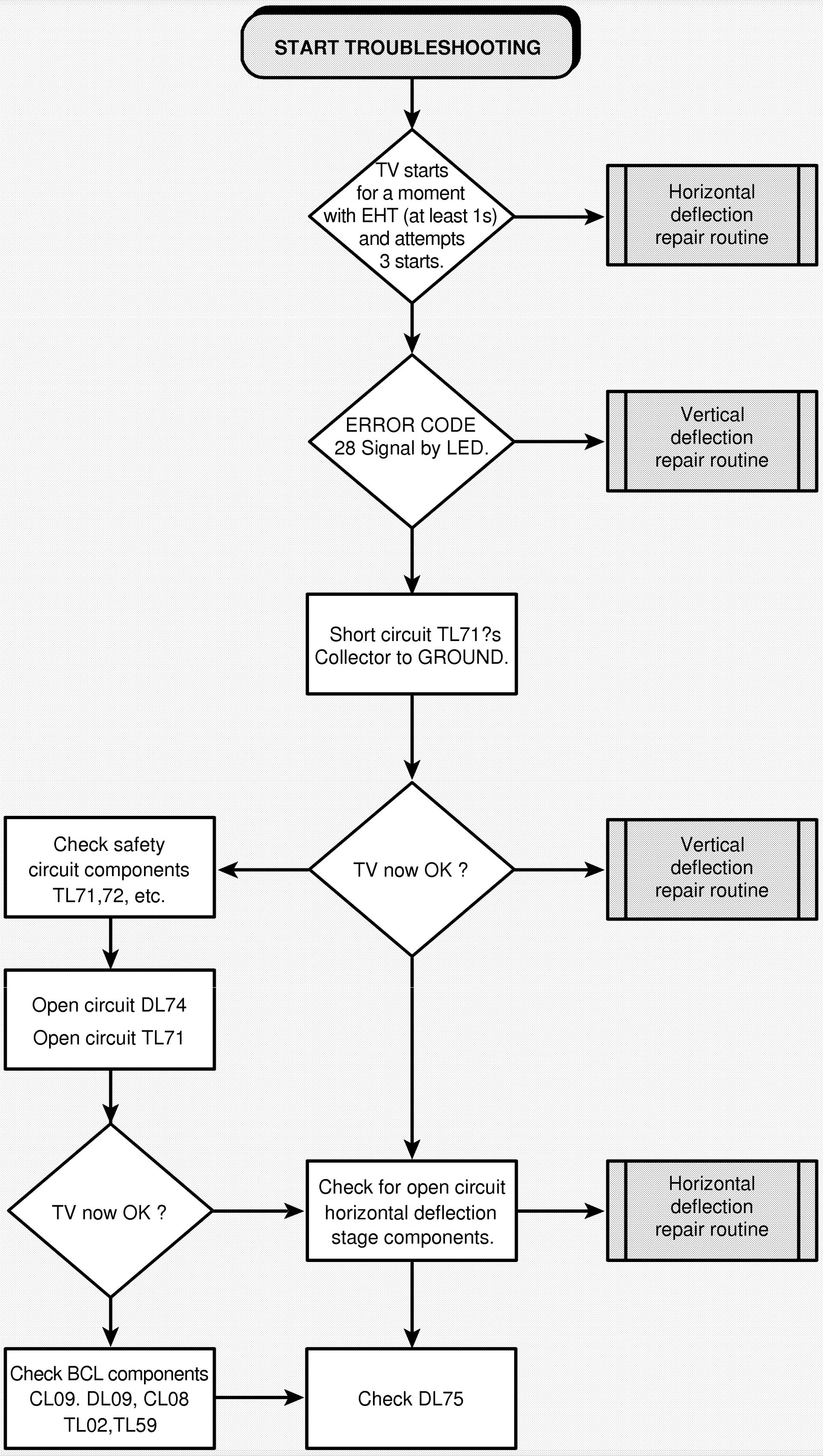


Currently all ICC17 TV sets are fitted with a Bicoloured LED, the red part is the Standby LED whilst, the green part is directly connected to the switched +8V supply. Therefore, the colour of the LED will depend upon the state of this voltage, the chart below gives the corresponding LED-colours:

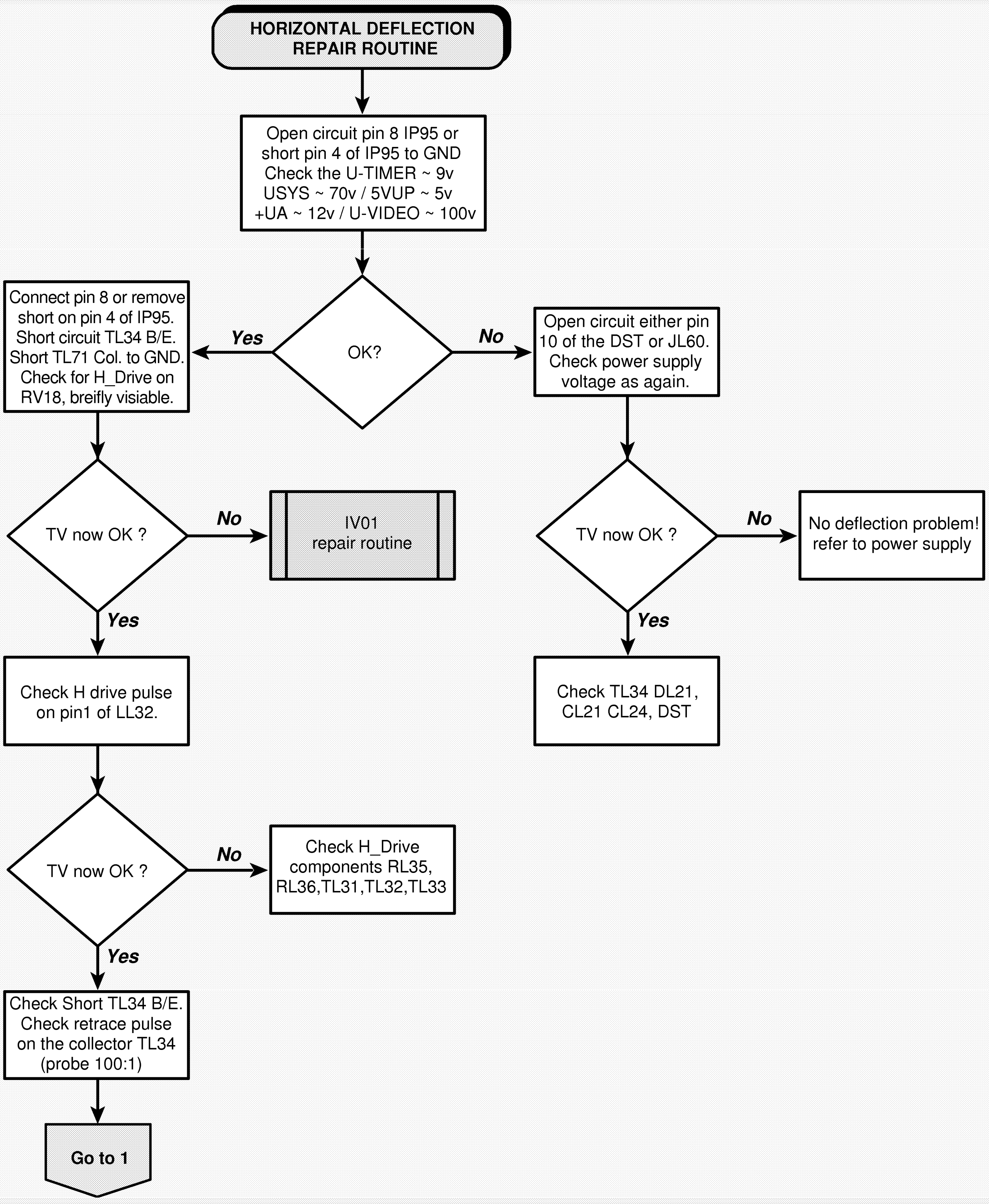
	LED-port	
switched +8 V	off	on
on	green	orange
off	off	red

CODES	DEFAULTS
12	AUDIO-DPL DOES NOT ANSWER
14	TDA8855H DOES NOT ANSWER
15	AUDIO-MSP PROCESSOR NO LONGER RESPONDING
19	TUNER DOES NOT ANSWER
21	SDA LINE BEING HELD LOW
23	CLOCK HELD AT LOW LEVEL, SCL LINE HELD AT A LOW LEVEL
25	SWITCHED 5V NOT AVAILABLE
26	TUBE DOES NOT GET WARM IN TIME
27	THE DEFLECTION STAGE HAS DETECTED A FAULT ON MORE THAN THREE OCCASIONS
28	TDA VERTICAL GUARD VOLTAGE EXCEEDED
29	TDA HORIZONTAL GUARD VOLTAGE EXCEEDED
31	INTERNAL SOFTWARE ERROR
32	A SOFTWRE-TIMER HAS BEEN REQUESTED, BUT IS NOT YET AVAILABLE
34	THE NVM CHIP DOES NOT ANSWER
35	+13V IS NOT AVAILABLE
36	WRONG NVRAM ADDRESS PASSED TO THE BUS - HANDLER
37	UNEXPECTED LEVEL ON NMI (INTERRUPT) LINE FOUND (POSSIBLE CAUSE : TUBE FLASHOVER)
38	HEAP FULL
41	BUS (DATA LINE) NOT RECOVERABLE

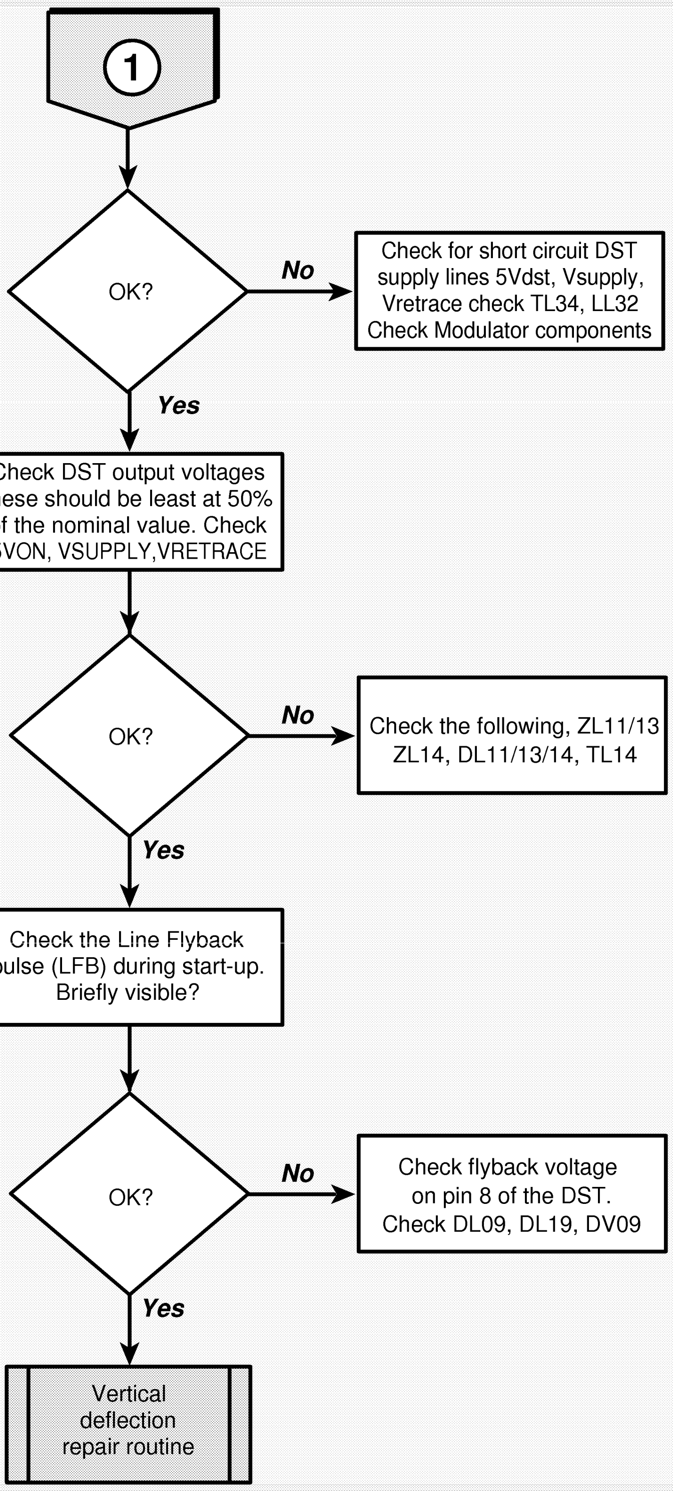
DEFLECTION CIRCUIT CHECK


START TROUBLESHOOTING
TV starts for a moment with EHT (at least 1s) and attempts 3 starts.
Horizontal deflection repair routine
ERROR CODE 28 Signal by LED.
Vertical deflection repair routine
Short circuit TL71?s Collector to GROUND.
Check safety circuit components TL71,72, etc.
TV now OK ?
Vertical deflection repair routine
Open circuit DL74
Open circuit TL71
TV now OK ?
Check for open circuit horizontal deflection stage components.
Horizontal deflection repair routine
Check BCL components CL09. DL09, CL08 TL02,TL59
Check DL75

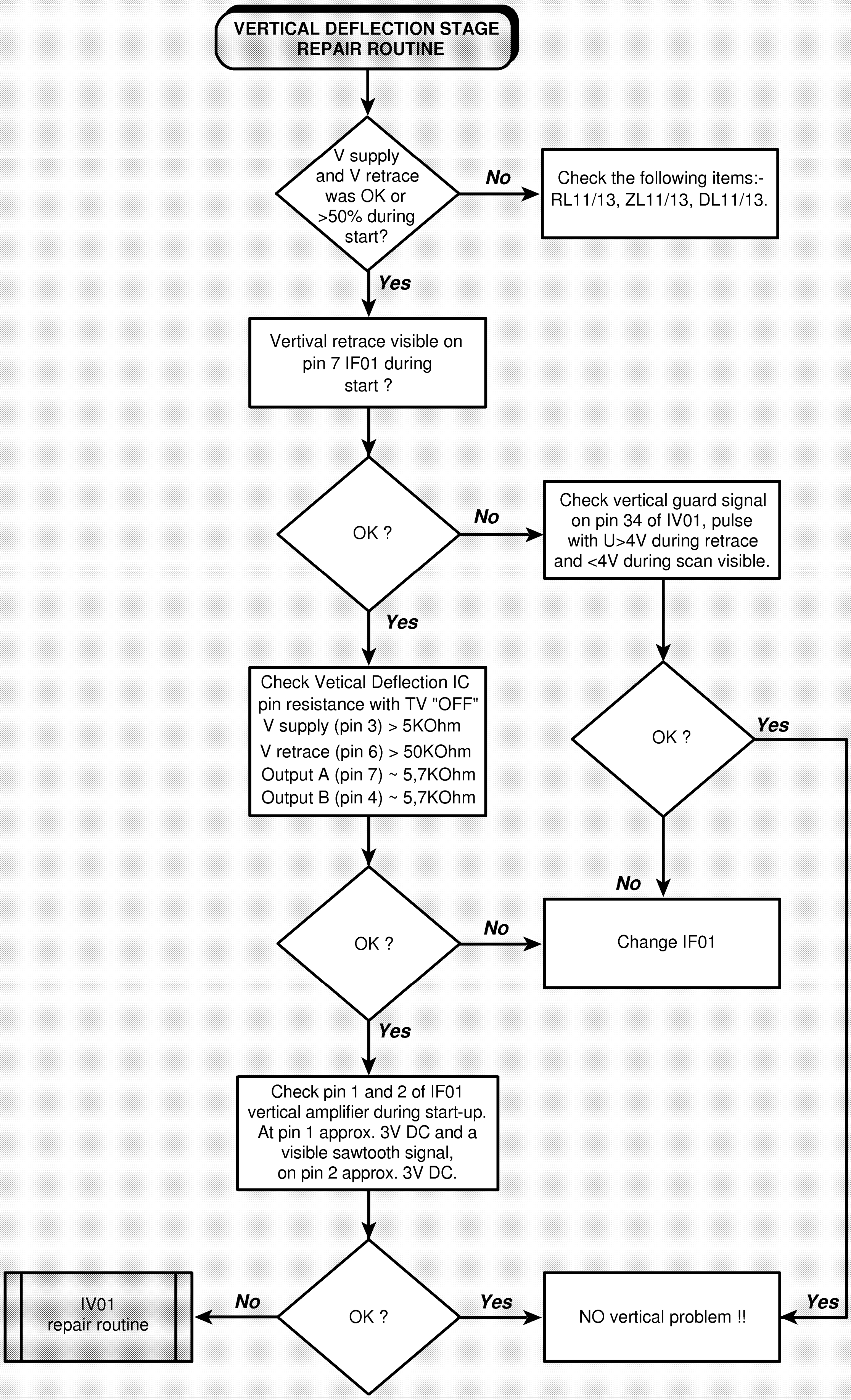
DEFLECTION CIRCUIT CHECK


HORIZONTAL DEFLECTION REPAIR ROUTINE
Open circuit pin 8 IP95 or short pin 4 of IP95 to GND Check the U-TIMER ~ 9v USYS ~ 70v / 5VUP ~ 5v +UA ~ 12v / U-VIDEO ~ 100v
OK?
Yes
No
Connect pin 8 or remove short on pin 4 of IP95. Short circuit TL34 B/E. Short TL71 Col. to GND. Check for H_Drive on RV18, breifly visiable.
Open circuit either pin 10 of the DST or JL60. Check power supply voltage as again.
TV now OK ?
No
IV01 repair routine
Yes
Check H drive pulse on pin1 of LL32.
TV now OK ?
No
Check H_Drive components RL35, RL36,TL31,TL32,TL33
Yes
Check Short TL34 B/E. Check retrace pulse on the collector TL34 (probe 100:1)
Go to 1
TV now OK ?
No
No deflection problem! refer to power supply
Yes
Check TL34 DL21, CL21 CL24, DST

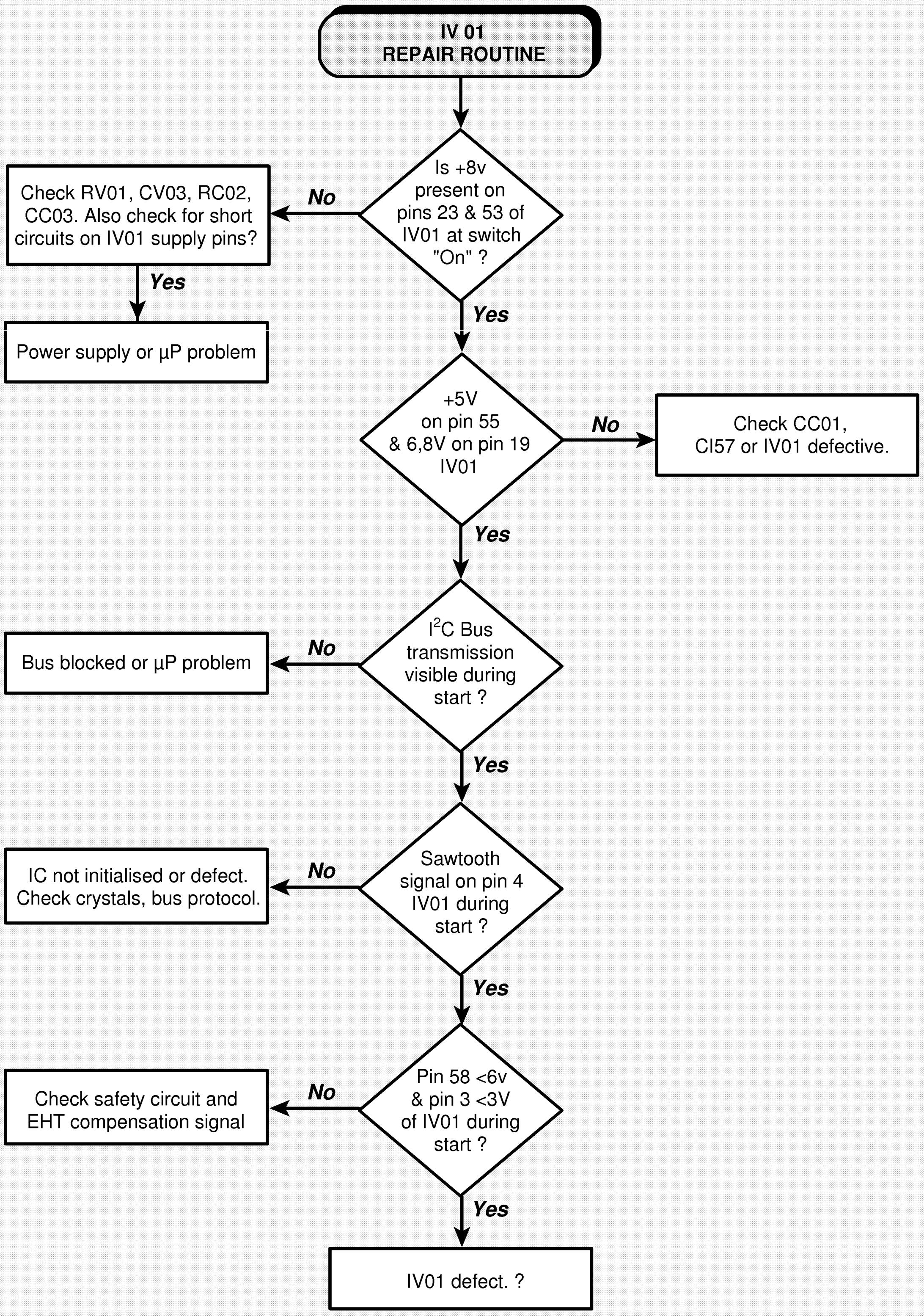
DEFLECTION CIRCUIT CHECK


1
OK?
No
Check for short circuit DST supply lines 5Vdst, Vsupply, Vretrace check TL34, LL32 Check Modulator components
Yes
Check DST output voltages these should be least at 50% of the nominal value. Check 5VON, VSUPPLY,VRETRACE
OK?
No
Check the following, ZL11/13 ZL14, DL11/13/14, TL14
Yes
Check the Line Flyback pulse (LFB) during start-up. Briefly visible?
OK?
No
Check flyback voltage on pin 8 of the DST. Check DL09, DL19, DV09
Yes
Vertical deflection repair routine

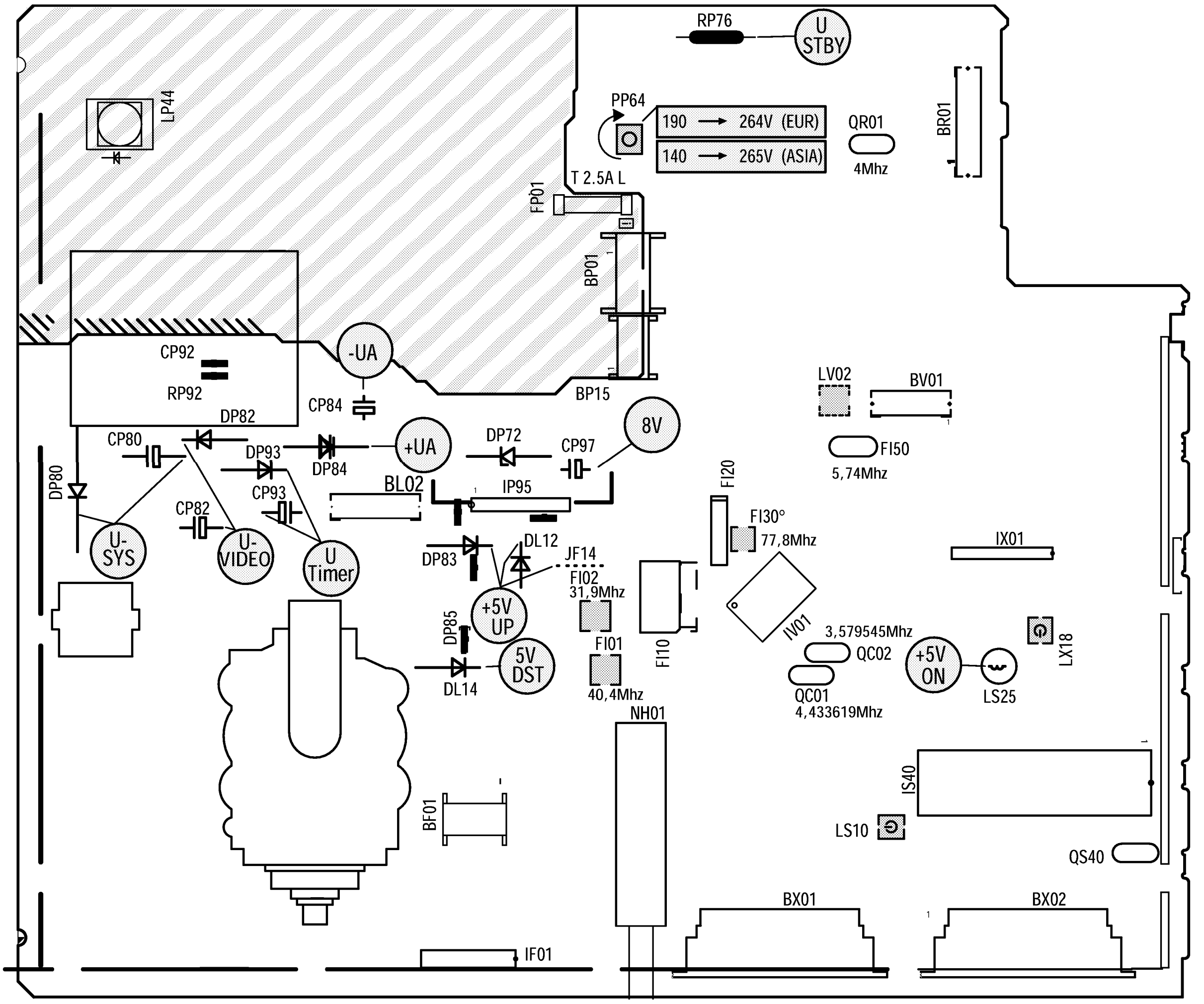
DEFLECTION CIRCUIT CHECK


VERTICAL DEFLECTION STAGE REPAIR ROUTINE
V supply and V retrace was OK or >50% during start?
No
Check the following items:- RL11/13, ZL11/13, DL11/13.
Yes
Vertival retrace visible on pin 7 IF01 during start ?
OK ?
No
Check vertical guard signal on pin 34 of IV01, pulse with U>4V during retrace and <4V during scan visible.
Yes
Check Vetical Deflection IC pin resistance with TV "OFF"
V supply (pin 3) > 5KOhm
V retrace (pin 6) > 50KOhm
Output A (pin 7) ~ 5,7KOhm
Output B (pin 4) ~ 5,7KOhm
OK ?
Yes
No
OK ?
No
Change IF01
Yes
Check pin 1 and 2 of IF01 vertical amplifier during start-up. At pin 1 approx. 3V DC and a visible sawtooth signal, on pin 2 approx. 3V DC.
IV01 repair routine
No
OK ?
Yes
NO vertical problem !!
Yes

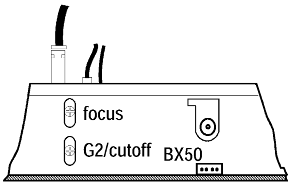
DEFLECTION CIRCUIT CHECK


IV 01
REPAIR ROUTINE
Is +8v present on pins 23 & 53 of IV01 at switch "On" ?
No
Check RV01, CV03, RC02, CC03. Also check for short circuits on IV01 supply pins?
Yes
Power supply or µP problem
Yes
+5V on pin 55 & 6,8V on pin 19 IV01
No
Check CC01, CI57 or IV01 defective.
Yes
I²C Bus transmission visible during start ?
No
Bus blocked or µP problem
Yes
Sawtooth signal on pin 4 IV01 during start ?
No
IC not initialised or defect. Check crystals, bus protocol.
Yes
Pin 58 <6v & pin 3 <3V of IV01 during start ?
No
Check safety circuit and EHT compensation signal
Yes
IV01 defect. ?

LOCATION OF CONTROLS - EMPLACEMENT DES REGLAGES - SERVICE LAGEPLAN - POSIZIONE REGOLATORI DI SERVIZIO - SITUACIÓN DE LOS AJUSTES


RP76
U STBY
PP64
190 → 264V (EUR)
140 → 265V (ASIA)
QR01
4Mhz
BR01
LP44
T 2.5A L
FP01
BP01
BP15
CP92
RP92
DP82
-UA
CP84
CP80
DP93
DP84
+UA
DP72
CP97
8V
DP80
CP93
BL02
IP95
CP82
U-SYS
U-VIDEO
U Timer
DP83
DL12
JF14
FI02
31,9Mhz
+5V UP
DP85
5V DST
DL14
FI01
40,4Mhz
FI10
NH01
LV02
BV01
FI50
5,74Mhz
FI20
FI30°
77,8Mhz
IX01
IV01
3,579545Mhz
QC02
QC01
4,433619Mhz
+5V ON
LS25
LX18
IS40
LS10
QS40
BF01
BX01
BX02
IF01

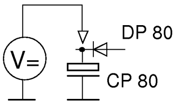
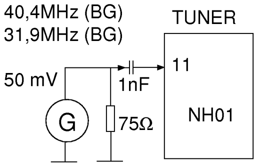
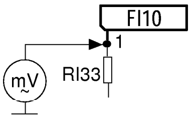
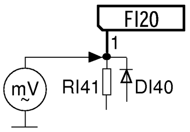
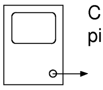
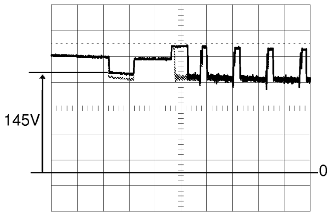
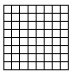
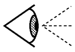
° it is not necessary , to adjust FI30 by after sales


focus
G2/cutoff
BX50

▨ Part of board connected to mains supply.
Partie du châssis reliée au secteur.
Primärseite des Netzteils.
Parte dello châssis collegata alla rete.
Parte del chassis conectada a la red.

⚠ Use isolating mains transformer -
Utiliser un transformateur isolateur du secteur -
Trenntrafo verwenden -
Utilizar un transformador aislador de red -
Utilizzare un trasformatore per isolarvi dalla rete

ADJUSTMENTS - REGLAGES - EINSTELLUNGEN - REGOLAZIONI - AJUSTES

<table>
<tr><td>U Sys</td><td>PP 64</td><td>◑ + ☼ + ◕ = 50%
TV to AV1 : Black test pattern</td><td> </td><td><table>
<tr><th>Tube</th><th>Format</th><th>Usys</th><th>Jumper</th><th>RL65</th></tr>
<tr><td>A51EBV13X01</td><td>4:3</td><td>128V+/-0,5V</td><td>JL80</td><td>4k7</td></tr>
<tr><td>A51EFS83X191</td><td>4:3</td><td>126V+/-0,5V</td><td>JL80</td><td>4k7</td></tr>
<tr><td>A59EHJ43X15</td><td>4:3</td><td>132V+/-0,5V</td><td>JL81</td><td>24k</td></tr>
<tr><td>A66EHJ43X15</td><td>4:3</td><td>132V+/-0,5V</td><td>JL81</td><td>24k</td></tr>
<tr><td>A59EGD048X30</td><td>4:3</td><td>126V+/-0,5V</td><td>JL80</td><td>4k7</td></tr>
<tr><td>A68EGD038X30</td><td>4:3</td><td>126V+/-0,5V</td><td>JL80</td><td>4k7</td></tr>
<tr><td>A68EGD038X70</td><td>4:3</td><td>126V+/-0,5V</td><td>JL80</td><td>4k7</td></tr>
<tr><td>A68AGA25X01</td><td>4:3</td><td>126V+/-0,5V</td><td>JL80</td><td>4k7</td></tr>
<tr><td>A80AEJ15X01</td><td>4:3</td><td>126V+/-0,5V</td><td>JL80</td><td>4k7</td></tr>
<tr><td>A80AEJ15X99</td><td>4:3</td><td>126V+/-0,5V</td><td>JL80</td><td>4k7</td></tr>
<tr><td>W56EGV023X015</td><td>16:9</td><td>138V+/-0,5V</td><td>JL82</td><td>47k</td></tr>
<tr><td>W66EGV023X015</td><td>16:9</td><td>138V+/-0,5V</td><td>JL82</td><td>47k</td></tr>
<tr><td>W76EGV023X015</td><td>16:9</td><td>138V+/-0,5V</td><td>JL82</td><td>47k</td></tr>
</table></td></tr>
<tr><td rowspan="2">IF Alignment
Alignement FI</td><td>trap 40.4Mhz
FI 01</td><td rowspan="2">Switch set to standard BG
Commuter le TV au standard BG
IF Signal
40,4MHz (BG)
31,9MHz (BG)
 </td><td> </td><td>Adjust FI01 for minimum value at 40,4Mhz</td></tr>
<tr><td>trap 31.9Mhz
FI 02</td><td> </td><td>Adjust FI02 for minimum value at 31,9Mhz</td></tr>
<tr><td>U G2 / cutoff</td><td>SCREEN</td><td>◑ + ☼ + ◕ = 50%
AV (no Signal, black screen)</td><td>CRT IB01:
pins 9 / 12 / 15
highest output</td><td> </td></tr>
<tr><td>FOCUS</td><td>FOCUS
LL05</td><td>Test pattern
(standard values)</td><td></td><td>Sharp picture</td></tr>
</table>

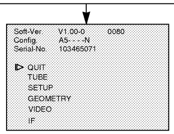
MODO SERVICIO (E)

I -ENTRADA/SALIDA MODO SERVICIO

1 ACCESO AL MODO SERVICIO

Acceso con panel control TV

- Con el mando a distancia conectar a STANDBY el televisor. Desconectar el aparato con el interruptor de la red (esperar hasta que el LED se apague).
- Pulse los botones **PR -** y **VOL -** y sin soltarlos,pulsar la tecla MARCHA:PARADA.
- Libere los botones **PR -** y **VOL -** (8S).


Soft-Ver. V1.00-0 0080
Config. A5- - - -N
Serial-No. 103465071
QUIT
TUBE
SETUP
GEOMETRY
VIDEO
IF

Nota :

En modo servicio:
- Se ignora la función de bloqueo y se inicializa la función "cerradura niños".
- Anula todos las horas programadas
- La patilla 8 del SCART es ignorada
- La detección WSS AV Link, EPG, y Telexto son desactivados.
- El apagado automático en caso de ausencia de señal de antena es desactivado.
- El contraste,color y brillo son puestos a los valores de fábrica.
- la nitidez es puesta al punto medio.
- La expansión de contrast al nivel bajo
- Modo Instalación es desactivado.
- Zoom y formato ignorados.

2 SALIDA TEMPORAL DEL MODO SERVICIO

- Pulse Salir en el mando a distancia
- Con el botón Menu puede acceder al menú de uso cotidiano.

- Puede entrar al Menú Servicio con el botón azul.

3 SALIDA DEL MODO SERVICIO

telecomando / **Panel de control TV** → - Vaya al punto QUIT del menú principal de modo Servicio

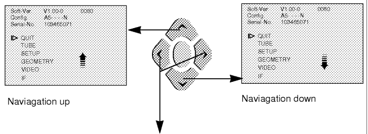
→ - Pulse el botón «<»,«OK» o «>» / - Pulse el botón«VOL.+» → - Modo TV.

Tecla on/off de → - Función Stand-by o desconexión (off) con tecla on/off.

Los valores o ajustes no se guardan antes de salir del modo servicio y no se escriben en la NVM

II - NAVIGATION INSIDE THE SERVICE MODE - DEPLACEMENT DANS LE MODE SERVICE FUNCTIONS WALLIN SERVICE MODE - OPZIONI NEL SERVICE MODE - BUSQUEDA EN MODO SERVICIO

1 REMOTE CONTROL - TELECOMMANDE - FERNBEDIENUNG TELECOMANDO - MANDO A DISTANCIA

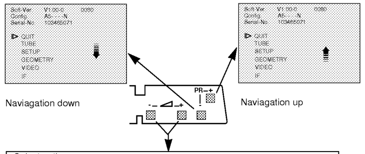

Soft-Ver. V1.00-0 0080
Config. A5- - - -N
Serial-No. 103465071
QUIT
TUBE
SETUP
GEOMETRY
VIDEO
IF
Naviagation up
Naviagation down

- Select option
- Option anwählen
- Selezionare l'opzione
- Seleccionar opción

- "Change" value
- Wert "änden"
- "Cambiare" valore
- "Cambiar" valor

> → VALUE ↗
< → VALUE ↘

2 TV CONTROL PANEL - CLAVIER TV - TASTATUR DES FERNSEHGERÄTS - COMANDI DEL TELEVISORE -

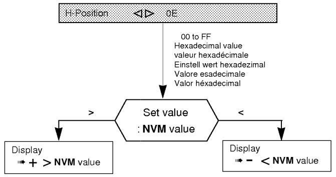

Soft-Ver. V1.00-0 0080
Config. A5- - - -N
Serial-No. 103465071
QUIT
TUBE
SETUP
GEOMETRY
VIDEO
IF
Naviagation down
Naviagation up
PR-+

- Select option
- Option anwählen
- Selezionare l'opzione
- Seleccionar opción

- "Change" value
- Wert "änden"
- "Cambiare" valore
- "Cambiar" valor

Vol. + → VALUE ↗
Vol. – → VALUE ↘

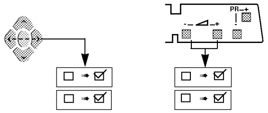
3 DISPLAYING THE VALUE OF THE SETTING - AFFICHAGE DES VALEURS - ANZEIGE DES EINSTELL WERTS VISUALIZZAZIONE DEL VALORE DELLA REGOLAZIONE - VISUALIZACION DEL VALOR DE AJUSTE


H-Position ◁▷ 0E
00 to FF
Hexadecimal value
valeur hexadécimale
Einstell wert hexadezimal
Valore esadecimale
Valor héxadecimal
Set value
: NVM value
>
<
Display
➠ + > NVM value
Display
➠ – < NVM value

4 TOGGLE FUNCTIONS - VALIDATION DES FONCTIONS EIN-UND AUSSCHALT FUNKTIONEN - FUNZIONI DI COMMUTAZIONE - FUNCION CONMUTACION

To enable a function check (tick) ☑ the box.
Pour valider une fonction cocher ☑ la case correspondante
Zum Implementieren einer Funktion das Kontrollkästchen ☑ aktivieren (ankreuzen)
Per implementare una funzione di verifica, (vistare) ☑ la casella
Para poner en fucionamiento una función verifique (señale) ☑ la casilla

☑ : :Enable function ☐ : Disable function



5 STORING VALUES IN MEMORY - MEMORISATION DES VALEURS - SPEICHERN DER WERTE - MEMORIZZAEZ I VALORI - VALORES ALMACENADOS EN LA MEMORIA

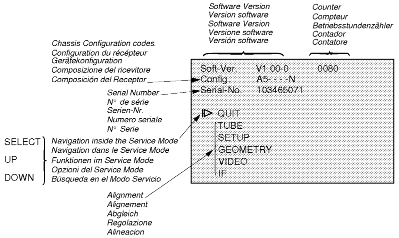
After setting, the values are stored in NVM.
Après réglages les valeurs sont mémorisées en NVM.
Nach dem Einstellen werden die Werte im NVM gespeichert.
Dopo la regolazione i valori vengono memorizzati in NVM.
Después del ajuste, los valores son almacenados en NVM

The box ☐ becomes ☑
During alignment, values are temporarily stored in RAM.
En cours d'alignement les valeurs sont mémorisées temporairement en RAM
Während des Abgleichs werden die Werte vorübergehend im RAM gespeichert
Durante l'allineamento i valori vengono memorizzati provvisoriamente sulla RAM
Durante el ajuste, los valores son almacenados temporalmente en RAM

Store ➠	Copîes RAM values into NVM Copie la valeur RAM en NVM Kopieren des Werts von RAM nach NVM Copiare i valori RAM in NVM Copiar valores RAM en NVM
Restore ➠	Copies all values from NVM into RAM. Copie toutes les valeurs des données NVM en RAM Kopiert alle NVM-Datenwerte in den RAM Copiare tutti i valori da NVM sulla RAM Copia todos los valores de NVM a RAM
ROM Default ➠	All the default values of a page in use are stored in RAM. L'ensemble des valeurs par défaut d'une page courante est chargé en RAM. Sämtliche Standardwerte der aktuellen Seite werden im RAM geladen Tutti i valori di default di una pagina in uso vengono memorizzati sulla RAM Todos los valores por defecto de la página en curso están almacenados en RAM.

III - LITE-MENU FOR FIELD SERVICE MODE - MENUS DU MODE SERVICE

1 MAIN MENU - MENU PRINCIPAL


Software Version
Version software
Software Version
Versione software
Versión software
Counter
Compteur
Betriebsstundenzähler
Contador
Contatore
Chassis Configuration codes.
Configuration du récépteur
Gerätekonfiguration
Composizione del ricevitore
Composición del Receptor
Serial Number
N° de série
Serien-Nr.
Numero seriale
N° Serie
SELECT
UP
DOWN
Navigation inside the Service Mode
Navigation dans le Service Mode
Funktionen im Service Mode
Opzioni del Service Mode
Búsqueda en el Modo Servicio
Alignment
Alignement
Abgleich
Regolazione
Alineacion
Soft-Ver. V1.00-0 0080
Config. A5- - - -N
Serial-No. 103465071
QUIT
TUBE
SETUP
GEOMETRY
VIDEO
IF

TV CONFIGURATION - CONFIGURATION DU TV - GERÄTEKONFIGURATION - CONFIGURAZIONE DEL TV - CONFIGURACIÕN DEL TV

Config. **A1Z-DKC**

Character 1 : Tube type : «A»= 4/3 , «W» =16/9
Character 2 : Chassis type : «5» = 50Hz,
Character 3 : Zoom available : «Z»=yes, «-»=not
Character 4 : Ambiant Sensor : «S»= detected, «-»= not
Character 5 : Dolby : «D»=detected, «-»= not
Character 6 : AV Link detected : «K»=IR link detected, «-»= not
Character 7 : Chassis Variant: «N»= Nicam, «S»=Stereo

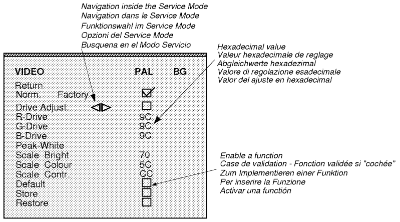
Serial-N0. **AI6------**

Character 1 : Factory : «A»= Angers , «C» =Celle, «T» =Tarancon
Character 2 : Year : «G» = 1996, «H»= 1997 etc..
Character 3 : Month, from : «1»=January to «C»=December
Character 4-9 : Serial N0.

TIME COUNTER - COMPTEUR DE TEMPS - BETRIEBSSTUNDENZÄHLER - CONTATORE - CONTADOR

The counter indicates the TV's number of service hours.It counts from to 0 to 65535 hours. The display is hexadecimal.
Le compteur de temps indique le nombre d'heures de service du TV. Il compte de 0 à 65535 heures. L'affichage est en hexadécimal.
Der Zähler zeigt an, wieviele Stunden der Fernseher in Betrieb ist. Die Anzeige ist hexadezimal.
Il contatore indica il numero di ore di servizio del TV. Puo' contatore da 0 a 65535. La visualizzazione è esadecimale.
El contador indica el número de horas de servicio de la TV. Cuenta de 0 a 65535 horas. El visualizador es hexadecimal.

2 SUBMENU - SOUS-MENU


Navigation inside the Service Mode
Navigation dans le Service Mode
Funktionswahl im Service Mode
Opzioni del Service Mode
Busquena en el Modo Servicio
Hexadecimal value
Valeur hexadecimale de reglage
Abgleichwerte hexadezimal
Valore di regolazione esadecimale
Valor del ajuste en hexadecimal
Enable a function
Case de validation - Fonction validée si "cochée"
Zum Implementieren einer Funktion
Per inserire la Funzione
Activar una función
VIDEO PAL BG
Return
Norm. Factory ☑
Drive Adjust. ◁▷ ☐
R-Drive 9C
G-Drive 9C
B-Drive 9C
Peak-White
Scale Bright 70
Scale Colour 5C
Scale Contr. CC
Default ☐
Store ☐
Restore ☐

ALIGNMENT PROCEDURE - PROCESSUS DE REGLAGES - ABGLEICH - VISUALIZZAZIONE DEL VALORE DI REGOLAZIONE - PROCEDIMIENTO DE ALINEACION

TUBE
Return
Tube type A66ECY...
Store ◁▷ ☑
Restore ☐

SETUP
Return
Clear Progs. ▷
Brand* Other
Kbd. Config. Default
Bus Quiet ☐
WSS ☐
Default ☐
Store ☐
Restore ☐

** according to model - selon modèle - gemäß modell - Secondo modello - segun modelo .*

GEOMETRY
Return
V- Slope 7C
V-Amplitude 6C
V-Position ◁▷ 7C
S - Correction 54
H-Position 94
H-Amplitude 70
EW-Amplitude 78
EW-Shape 50
EW-Trapezium 98
Default ☐
Store ☐
Restore ☐

VIDEO PAL BG
Return
Norm. Factory ☑
Drive Adjust. ◁▷ ☐
R-Drive 9C
G-Drive 9C
B-Drive 9C
Peak-White
Scale Bright 70
Scale Colour 5C
Scale Contr. CC
Default ☐
Store ☐
Restore ☐

IF
Return
AGC Take Over ◁▷ 88
FFI - Bit ☐
Default ☑
Store ☑
Restore ☑

TUBE

Return

Closes the sub-menu and returns to the "Main Service Menu".

Retourne au menu principal.

Schließt das Untermenü, und das Servicemodus-Menü erscheint.

Chiude il sottomenu e fa apparire il menu principale Field Service Mode.

Cierra el submenú. El menú Field Service Mode aparece.

Press </>: remote control; Vol. +/- : TV keyb.

Tube type

After replacing the NVM, the correct tube type number must be entered (6 characters). Once entered, the tubes geometry and video default vales are immediately activated. Variable geometry and video parameters are written to the NVM when the "STORE" line is selected. See table below for tube type numbers.

Définit le tube exact après changement de NVM. Les nouvelles valeurs de tubes (avec video et géometrie) sont actives de suite. Les paramètres de vidéo et de géométrie sont chargés en NVM lorsque STORE est sélectionné. Voir liste ci-dessous.

Nach Tausch des NVM den Bildröhrentyp (6 Ziffern) auswählen. Die neuen Geometrie-und Video-Defaultwerte werden sofort aktiv. Variable Geometrie- und Videowerte werden durch Speichern mit "STORE" ins NVM geschrieben. Bildrohrauflistung : siehe unten.

Scegliere il tubo appropriato dopo aver sostituito la NVM; i 6 caratteri che indicano il nuovo tipo di tubo, richiamano i valori video e geometria di default. I parametri per video e geometria vengono caricati nella NVM

Definir el tubo correcto después de haber cambiado el NVM.6 caracteres.Los nuevos valores de tipo de tubo (con la video y la geometría por defecto) se activan inmediatamente. Los parámetros variables de geometría y video se graban en el NVM al seleccionar la función Store. Vea más abajo la lista de tubos.

→ After setting → Store (+) ☑

Tube Name	LIST name	Description
A51EFS83X191	A51EFS	4:3; 21" OT; AK-Mask; Coty-M
A59EHJ43X15	A59EHJ	4:3; 25" MP; AK-Mask; Vector
A66EHJ43X15	A66EHJ	4:3; 28" MP; AK-Mask; Vector
A68EGD038X30	A68EGD	4:3; 29" SF; Invar; Vector
A68EGD038X70	A68EGD	4:3; 29" SF; Invar; Vector
A80AEJ13X01	A80AEJ	4:3; 33" MP AK-Mask; Coty-M
A80AEJ15X99	A80AEJ	4:3; 33" MP AK-Mask; Coty-M
A59EGD048X30	A59EGD	4:3; 25" SF; Invar-Mask; Vector
A68AGA25X01	A68AGA	4:3; 29" VHP; AK-Mask; Coty-M
W56EGV023X015	W56EGV	16:9; 24" SF; Invar-Mask; Vector
W66EGV023X015	W66EGV	16:9; 28" SF; Invar-Mask; Vector
W76EGV023X015	W76EGV	16:9; 32" SF; Invar-Mask; Vector

SETUP

Return

Closes the sub-menu and returns to the "Main Service Menu".

Retourne au menu principal.

Schließt das Untermenü, und das Servicemodus-Menü erscheint.

Chiude il sottomenu e fa apparire il menu principale Field Service Mode.

Cierra el submenú. El menú Field Service Mode aparece.

Press </>: remote control; Vol. +/- : TV keyb.

Clear Prog.

Clears all programmes STORED in memory and resets all PICTURE and SOUND settings to the factory default values . The AUTO INSTALL (out of factory) mode can be initialised by a long press (> 2.5sec.) of the selection button.

Efface tous les programmes memorises, initialise les valeurs SON et IMAGES aux valeurs usines et met le TV en mode de sortie usine "AUTO INSTALL". Fonction valide par une longue pression (>2.5s) sur la touche de sélection </>.

Löscht alle Programmplätze und setzt alle Bild- und Toneinstellungen auf Fabrikwerte zurück. Der AUTO-INSTALL-Modus kann durch einen langen Knopfdruck (>2,5s) initialisiert werden.

Clear Prog. Cancella tutti i programmi in memoria e regola i Valori analogici SUONO IMMAGINE: ailivelli di fabbrica.Riportare la TV al modo Selezione: pressione prolungata: 2,5 sec.

Programa de borrado. Borra todos los programas almacenados en la memoria.Valores analógicos de IMAGEN y SONIDO: valores de fábrica.Regreso a la TV para "salir del modo fábrica".Selección: Presión larga igual a 2,5 s.

Brand*

Set the "Brand": Thomson, Telefunken, Other
Factory adjusted
Reserve au reglage usine
Reserviert für Fabrikeinstellungen
Riservato alla regolazione di fabbrica
Ajuste reservado fábricas
Press </>: remote control; Vol. +/- : TV keyb.

Kbd. Config

Factory adjusted
Reserve au reglage usine
Reserviert für Fabrikeinstellungen
Riservato alla regolazione di fabbrica
Ajuste reservado fábricas
Kbd. Config ◁▷ Other / Default
Press </>: remote control; Vol. +/- : TV keyb.

WSS

Automatic detection of DOLBY surround sound and 16/9 format pictures via Teletext line number 23 is valid on all programmes.

Détection automatique du son surround DOLBY et du format 16/9 via la ligne 23 du Teletxte. Valide pour tous programmes.

WSS (nur bei 16:9 oder Dolby) Auswertung der Zeile 23 zur automatischen Format-und Dolbyumschaltung.

Identificazione "auto-surround" e "format" via televideo alla riga 23.La selezione di WSS Processing vale per tutti i programmi.

Detección "auto-surround" y "format" a través de la linea 23 de Teletext.La selección del procesamiento WSS es válida para todos los programas.

☑ Detection enable ☐ Detection disable

→ After setting → Store (+) ☑

SETUP

Bus Quiet

In bus quiet, the NVM can be read, modified and reprogrammed by means of a NVM Programmer. Accessing the Bus quiet : Long press ">".

The TV should remain in "Bus quiet" until there is a press of Exit, Left, Right, Up, Down or Standby keys on infrared or the local keyboard ; at which point TV should be warmstarted in order to avoid differences between NVM and RAM contents.

After returning from bus quiet, the software check the NVM content. If it is not valid, the software perform a new default writing of the NVM content.

En mode bus quiet la NVM peut être lue, modifiée et reprogrammée. Accès au mode Bus quiet : Longue pression ">".

Utiliser l'une des touches Exit, Gauche, Droite Haut, Bas, standby ou une des touches du clavier pour sortir le téléviseur du mode bus quiet. A partir de ce point de sortie le démarrage du téléviseur s'effectue à chaud pour éviter toute différence des contenus RAM et NVM.

En sortie de mode bus quiet, le logiciel contrôle le contenu de la NVM. S'il n'est pas correct le logiciel exécute une nouvelle écriture par défaut de celle-ci.

Im "Bus Quiet"-Modus kann der Inhalt des NVM mittels eines externen NVM-Programmiergerätes ausgelesen, geändert oder neu programmiert werden. "Bus Quiet" wird einem längeren Druck auf ">" aktiviert.

Das Gerät bleibt solange im "Bus Quiet" -Mode, bis durch Druck auf die EXIT-, LINKS-, RECHTS-, HOCH-, RUNTER- oder STANDBY-Taste (am Gerät oder auf der Fernbedienung) ein Warmstart des Gerätes veranlaßt wird, um unterschiedliche Daten in RAM und NVM zu vermeiden.

Es folgt ein Software-Check des NVM-Inhaltes. Sollte dieser nicht gültig sein, wird der Inhalt mit Default-Werten überschrieben.

In Modo Bus Quiet, la memoria NVM può essere letta, modificata o riprogrammata. Per accedere al modo Bus Quiet premere a lungo il tasto ">".

Il TV dovrebbe rimanere in modo Bus Quiet fino a che vengono premuti i tasti Exit, o Destro Sinistro, Su o Giù o Standby dal telecomando o dalla tastiera locale; a questo punto il TV dovrebbe ripartire per evitare interferenze tra i contenuti della memoria NVM e della RAM.

All'uscita dal modo Bus Quiet, il software controlla il contenuto della memoria NVM. Se tale contenuto non è valido, il software provvede a una nuova programmazione della NVM con l'inserimento dei dati di default.

En bus quieto, la NVM puede ser leída, modificada y reprogramada. Acceso a bus quieto : Larga presión en ">"

El TV permanecerá en bus quieto hasta que se pulse cualquiera de las teclas siguientes: Exit, "<", "Y", "/", ">"o Standby del telemando o del teclado. En este momento el TV arrancará para evitar cualquier diferencia entre los contenidos de la RAM y NVM.

Al salir del modo bus quieto, el software comprueba el contenido de la NVM. Si no coincide, el software ejecuta la escritura de los datos en la NVM.

☑ Bus quiet enable ☐ Bus quiet disable

→ After setting → Store (+) ☑

GEOMETRY

Return

Closes the sub-menu and returns to the "Main Service Menu".

Retourne au menu principal.

Schließt das Untermenü, und das Servicemodus-Menü erscheint.

Chiude il sottomenu e fa apparire il menu principale Field Service Mode.

Cierra el submenú. El menú Field Service Mode aparece.

Press </>: remote control; Vol. +/- : TV keyb.

V-Slope

- **ATTENTION**: Select the standard 4:3 format for 4/3 tube or 16/9 format for 16/9 tube.
- Apply a test pattern signal to the TV with a single horizontal and vertical line on the screen.
- Select the **"V_Slope"** line of the menu. The bottom half of the screen will go black.
- Adjust V_Slope until the centre line of the pattern is just invisible.
- Leave the line **"V_Slope"**.
- Switch the test pattern signal to the crosshatch geometry pattern.
- Perform the geometry adjustments described below.
- Store

- **ATTENTION**: Sélectionner le format 4/3 pour tube 4/3 et le format 16/9 pour les TV 16/9.
- Appliquer une mire de barres avec seulement une ligne blanche horizontale en milieu de l'écran.
- Sélectionner la ligne **"V-Slope"**. La moitié basse de l'écran devient noire.
- Aligner **"V_Slope"** pour que la ligne médiane soit à peine non visible.
- Commuter la mire en mode de réglage de géométrie (quadrillage).
- Effectuer les reglages de geometrie ci- après.
- Memoriser

- **ACHTUNG**: Wählen Sie das 4:3 Format bei 4:3 Bildröhren oder 16:9 bei 16:9 Bildröhren.
- Speisen Sie ein Testbild mit einem horizontalen Strich in der Bildmitte ein.
- Wählen Sie im Menü die Funktion "V-Slope" an. Die untere Bildhälfte wird dunkel.
- Stellen Sie "V-Slope" so ein, daß die Mittellinie fast verschwindet.
- Verlassen Sie die Funktion "V-Slope".
- Speisen Sie ein Gittertestbild ein.
- Nehmen Sie die Geometrieeinstellungen wie nebenstehend beschrieben vor.

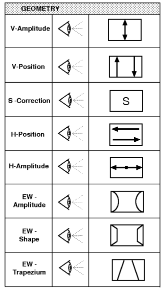
- **ATTENZIONE**: Selezionare il formato standard 4/3 per il cinescopio 4/3 e il formato 16/9 per il cinescopio 16/9.
- Applicare un monoscopio con un'unica linea bianca orizzontale al centro dello schermo
- Selezionare la riga **"V slope"** del menu. La parte bassa dello schermo viene oscurata.
- Allineare la "Vertical Slope" in modo che la linea centrale sia appena visibile
- Abbandonare la riga **"V slope"**.
- Posizionare il monoscopio
- Effettuare le regolazioni di geometria descritte in precedenza
- Memorizzare.

- **ATENCIÓN**: Seleccionar 4/3 para tubos de formato 4/3 y el formato 16/9 para tubos 16/9.
- Aplique una carta de ajuste con sólo una línea blanca horizontal y una vertical en el centro de la pantalla.
- Seleccionar en el menú, la línea **"V-Slope"**. La mitad inferior de la pantalla se pondrá oscura.
- Ajuste **"V-Slope"** justo hasta que la línea horizontal sea invisible.
- Cambiar la carta de ajuste a "cuadrícula" y efectuar los ajustes de geometria descritos a continuación
- Antes de salir, memorizar con "Store"

Press </>: remote control; Vol. +/- : TV keyb.

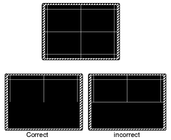
Test Pattern Signal used: 4/3 with geometric circle. Adjust separate for 4/3 and 16/9 format. See annexed

GEOMETRY



→ After setting → Store (+) ☑

V-Slope :



The signals colour standard is auto detected and displayed opposite the main menu line.
Select 4:3 mode for 4:3 TV sets and 16:9 mode for 16:9 TV sets.

VIDEO PAL

Return

Closes the sub-menu and returns to the "Main Service Menu".

Retourne au menu principal.

Schließt das Untermenü, und das Servicemodus-Menü erscheint.

Chiude il sottomenu e fa apparire il menu principale Field Service Mode.

Cierra el submenú. El menú Field Service Mode aparece.

Press </>: remote control; Vol. +/- : TV keyb.

Norm. Factory

Recalls the factory settings for colour, brightness, contrast and sharpness and sets Black Expand off.

☑ Factory settings recalled
☐ User settings kept.

Drive Adjust.*

☑ Enable before R/B/G-Drive and Peak White alignments.

☐ After the alignment is completed "Drive Adjustment" should be disabled.

R - Drive
G - Drive
B - Drive

white

☼ + ◑ =50%
◐ =50% : AK mask tube
=70% : invar mask.
Grey scale test pattern white =100%
RF-BG, RF-L, AV1-RGB
Drives cannot be aligned in I (PAL)

Peak-White**

☼ + ◑ =50%
◐ =50% : AK mask tube
=70% : invar mask.
Peak white test pattern, white =100%
Colourimeter

Tube Type	[Nits]	Tube Type	[Nits]
A51EFS	420	A68EGD	350
A59EHJ	380	A80AEJ	240
A59EGD	400	W56EGV	520
A66EHJ	300	W66EGV	480
A68AGA	-	W76EGV	370

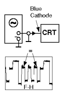
Adjustments : RF-BG, RF-L, RF-I, AV for CVBS, RGB

Scal. Brightness

☼ + ◑ = 50%
◐ = 100%
Grey scale test pattern white =100%
black

Scal. Colour

☼+ ◑ + ◐ =nom.
RF : BG-PAL, L-SECAM, I-PAL
75% Colour bar test pattern via RF.



Scal. Contrast

factory settings.

IF

AGC

- Minimum noise- Minimum de bruit
- Minimum Rauschen- Rumore minimo
- Minimo ruido

FFi - Bit

Fast filter (IF /PLL)
Filtre rapide (FI /PLL)
Schnelles Filter (ZF/PLL)
Filtro rapido (IF /PLL)

☑ Asie
☐ Europ

→ After setting → Store (+) ☑

Note :

* Before R/B/G Drive and Peak White alignments :
1- Blue Strech has to be switched on
2- Black Strech has to be switched off
3- Tone has to be set to Neutral
1-2-3 are all done by enabling the Drive Adjustment.
After the alignment the checkbox should be unchecked to display.
This action will restore the settings for Blue, Black Strech and Tone.

Avant l'alignement des Drives R/G/B:
1- L'extension "Bleu" doit être en fonction.
2- L'extension "Noir" doit être inhibée.
3- La tonalité doit être neutre.
1-2-3 sont effectués en validant la fonction Drive Adjust.
Après l'alignement il est nécessaire de désactiver "drive adjust." pour rétablir les valeurs des extensions Bleu, Noire et Tonalité.

Vor dem R/G/B/-Drive und dem Peak White Abgleich müssen Black Stretch und Blue Stretch abgeschaltet werden und der Farbton auf "neutral" gestellt werden. Dieses geschieht automatisch bei der Aktivierung des Abgleiches "Drive Adjust." Nach dem Abgleich müssen die Funktionen durch ein erneutes Anklicken der Checkbox ("unchecken") "Drive Adjust. " wieder aktiviert werden.

Prima di allineare R/B/G Drive e Peak White:
1. Deve essere inserita la funzione Blue Stretch
2. Deve essere disattivata la funzione Black Stretch
3. Tone deve essere regolato su Neutral
Le funzioni 1,2,3 sono abilitate dal Drive Adjustment.
Dopo avere effettuato l'allineamento, disabilitare la linea Adjustment.
Questa funzione richiama le regolazioni Blue, Black, Stretch e Tone.

Antes de los ajustes R/G/B Drive y Peak White :
1 - La expansión del "azul" debe ser activada
2 - La expansión del "negro" debe ser desactivada
3 - La tonalidad debe ser neutra
Los pasos 1, 2 y 3 son efectuados validando los ajustes DRIVE.
Después de los ajustes, la casilla "Drive Adjust" debe ser desactivada.
Esta acción restaurará los valores "Blue", "Black", "Stretc y "Tone".

**When the Peak White is active R-Drive, G-Drive and B-Drive register values are changed in parallel (+/-1)

Lorsque l'on agit sur le réglage de Peak White les valeurs de registre R-Drive, G-Drive et B-Drive varient simultanément (+/-1).

Bei der Peak White-Einstellung werden die Register für R-Drive, G-Drive und B-Drive parallel (+/-1) geändert.

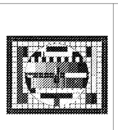
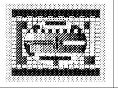
Quando "Peak White " è attivo, i valori di registro di R-Driv G-Drive e B-Drive vengono cambiati in parallelo (+/-1).

Cuando se activa el ajuste "Peak White", los valores de R-Drive, G-Drive y B-Drive varian simultáneamente (+/- 1)

GEOMETRY MODE ALIGNMENT

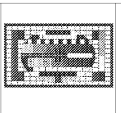
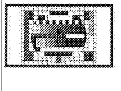
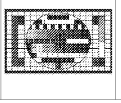
4/3 picture tube

Signal : 4/3 test pattern

4 / 3 standard mode zoom 0		overscan V=107% , H=107% 1- Adjust Vertical position and Vertical amplitude 2- Adjust S-correction 3- Store vertical geometry data. 4- Adjust Horizontal position and Horizontal ampltude 5- Adjust EW Amplitude ,EW Shape and Trapezium 6- Store geometry data.
16 / 9 standard mode zoom 0		- Control the vertical height : V = 80%

16/9 picture tube

Signal : 4/3 test pattern

16 / 9 standard mode zoom 0		overscan V=107%, H =107% 1- Adjust Vertical position and Vertical amplitude 2- Adjust S-correction. 3- Store vertical geometry data. 4- Adjust Horizontal position and Horizontal ampltude 5- Adjust EW Amplitude ,EW Shape and Trapezium 6- Store geometry data.
4 / 3 standard mode zoom 0		overscan V=107%, H =77% 1- Adjust Horizontal position and Horizontal ampltude 2- Adjust EW Amplitude 3- Store geometry data
4 / 3 cinerama zoom		overscan V=114%, H =104% 1- Adjust Horizontal position and Horizontal ampltude 2- Adjust EW Amplitude and the EW Shape 3- Store geometry data

ERROR CODES

GB

CODES	DEFAUTLS
12	AUDIO-DPL DOES NOT ANSWER
14	TDA8855H DOES NOT ANSWER
15	AUDIO-MSP PROCESSOR NO LONGER RESPONDING
19	TUNER DOES NOT ANSWER
21	SDA LINE BEING HELD LOW
23	CLOCK JAMMED AT LOW LEVEL,SCL LINE JAMMED AT AT LOW LEVEL
25	SWITCHED 5V NOT AVAILABLE
26	TUBE DOES NOT GET WARM IN TIME
27	THE DEFLECTION HAS DETECTED PROTECTION ON MORE THAN THREE OCCASIONS
28	TDA VERTICAL GUARD VOLTAGE EXCEEDED
31	INTERNAL SOFTWARE ERROR
32	A SOFTWRE-TIMER HAS BEEN REQUESTED, BUT IS NOT AVAILABLE YET
34	THE NVM CHIP DOES NOT ANSWER
35	+13V IS NOT AVAILABLE
36	WRONG NVRAM ADDRESS PASSED TO THE BUS - HANDLER
37	UNEXPECTED LEVEL ON NMI (INTERRUPT) LINE FOUND (POSSIBLE CAUSE : TUBE FLASHOVER)
38	HEAP FULL
41	BUS (DATA LINE) NOT RECVERABLE

F

CODES	DEFAUTS
12	PROCESSEUR AUDIO-DPL NE REPOND PLUS
14	TDA8855H NE REPOND PLUS
15	PROCESSEUR AUDIO-MSP NE REPOND PLUS
19	TUNER NE REPOND PLUS
21	LIGNE SDA AU NIVEAU BAS
23	CLOCK A NIVEAU BAS
25	5V COMMUTE N'EST PAS DISPONIBLE
26	PAS D'INFO TUBE CHAUD (APRES 25S)
27	PROTECTION BASE DE TEMPS ACTIVE PLUS DE TROIS FOIS
28	VERTICAL GUARD EXCESSIF
31	ERREUR LOGICIEL INTERNE
32	REQUETE LOGICIEL-TIMER DEMANDEE MAIS PAS ENCORE DISPONIBLE
34	PROBLEME NVM, MEMOIRE NE REPOND PLUS
35	+13V N'EST PAS DISPONIBLE
36	MAUVAISE ADRESSE NVM TRANSFEREE AU GESTIONNAIRE DE BUS
37	PROBLEME DETECTE SUR LA LIGNE NMI (HALT) PENDANT LE DEMARAGE OU LE FONCTIONNEMENT DU TV (POSSIBILITE : ARKING)
38	PILE LOGICIEL PLEINE
41	LIGNE DATA DU BUS I2C RESTE BLOQUEE

D

CODES	FEHLER
12	AUDIO-DPL ANTWORTET NICHT
14	TDA8855H ANTWORTET NICHT
15	1. AUDIO-MSP ANTWORTET NICHT
19	-
21	I2C-BUS DATA IST IMMER L
23	I2C-BUS CLOCK IST IMMER L
25	GESCHALTETE +5V NICHT VORHANDEN
26	BILDROHR WIRD NICHT INNERHALB VON 25S AUFGEHEIZT
27	SCHUTZSCHALTUNG HAT DREIMAL AUSGELÖST
28	TDA VERTIKAL SCHUTZ VGUARD IST AKTIVIERT WORDEN
31	INTERNER SOFTWAREFEHLER
32	EIN SOFTWARE-TIMER WURDE ANGEFORDERT, IST ABER NOCH NICHT BEREIT.
34	DAS EEPROM (NVM) ANTWORTET NICHT
35	+13V NICHT VORHANDEN
36	NVM ADRESSE NICHT GEFUNDEN
37	UNERWARTETER PEGEL AUF NMI (POWER_FAIL), MÖGLICHE URSACHE: SPANNUNGSÜBERSCHLAG
38	HEAP FULL
41	I2C-BUS (DATA) BLOCKIERT

I

CODICE	PROBLEMA
12	AUDIO - DPL NON RISPONDE
14	TDA8855H NON RISPONDE
15	PROCESSORE AUDIO NON RISPONDE PIŸ.
19	IL TUNER NON RISPONDE
21	LINEA SDA FORZATA BASSA
23	CLOCK BLOCCATO AL LIVELLO BASSO, LINEA TERRA BLOCCATA AL LIVELLO BASSO
25	LA TENSIONE 5V COMMUTATI NON DISPONIBILE
26	IL TUBO NON RAGGIUNGE LA CORRETTA TEMPERATURA NEL TEMPO STABILITO.
27	PIŸ DI 3 VOLTE LA RILEVAZIONE HA SCOPERTO UNA ÌPROTEZIONEÎ
28	ECCESSIVA TENSIONE ALLA LINEA VERTICAL GUARD DEL TDA
31	ERRORE INTERNO DEL SOFTWARE
32	E' STATO RICHIESTO UN SOFTWARE-TIMER, MA NON È ANCORA DISPONIBILE
34	IL CHIP NVM NON RISPONDE
35	+13V NON È DISPONIBILE
36	E' STATO TRASMESSO AL BUS UN INDIRIZZO ERRATO DELLA NVRAM
37	LIVELLO IMPREVISTO SULLA LINEA NMI
38	MEMORIA PIENA
41	BUS I2C (LINEA DATI) NON RIPRISTINABILE

E

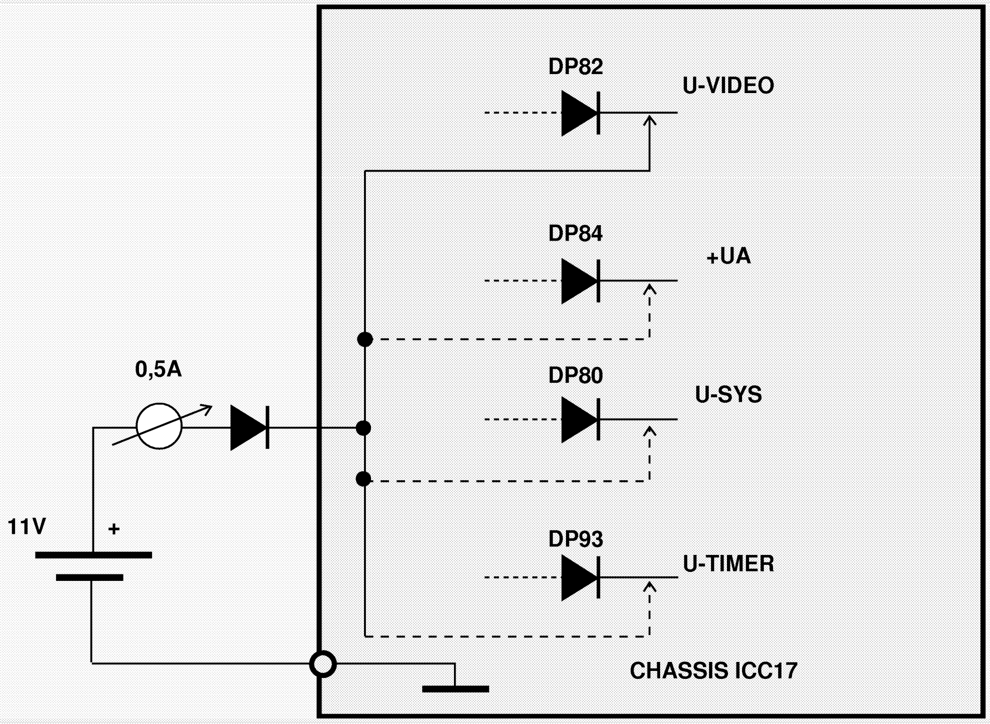
CÓDIGO	DEFECTO
12	AUDIO-DPL NO RESPONDE
14	TDA8855H NO RESPONDE
15	PROCESADOR AUDIO-MSP NO RESPONDE
19	SINTONIZADOR NO RESPONDE
21	LÍNEA SDA PUESTA A NIVEL BAJO
23	CLOCK FORZADO A NIVEL BAJO, LÍNEA SCL FORZADA A NIVEL BAJO
25	LOS 5V CONMUTADOS, FALTAN
26	EL TRC NO SE CALIENTA EN EL TIEMPO PREVISTO
27	EL BARRIDO HA DETECTADO PROTECCIÓN EN MÁS DE 3 OCASIONES
28	TDA DEL VERTICAL, EXCESIVA TENSIÓN DE GUARD
31	ERROR INTERNO DE SOFTWARE
32	UN TIMER-SOFTWARE HA SIDO SOLICITADO, PERO NO ESTÁ DISPONIBLE
34	LA "NVM" NO RESPONDE
35	LOS +13V, FALTAN
36	DIRECCIÓN DE LA NVRAM INCORRECTA
37	NIVEL INESPERADO EN LA LÍNEA NMI (INTERRUPT) POSIBLE CAUSA: DESCARGAS DEL TRC
38	PILA LLENA
41	BUS (LÍNEA DE DATOS) NO RECUPERABLE

SECONDARY DC-VOLTAGES

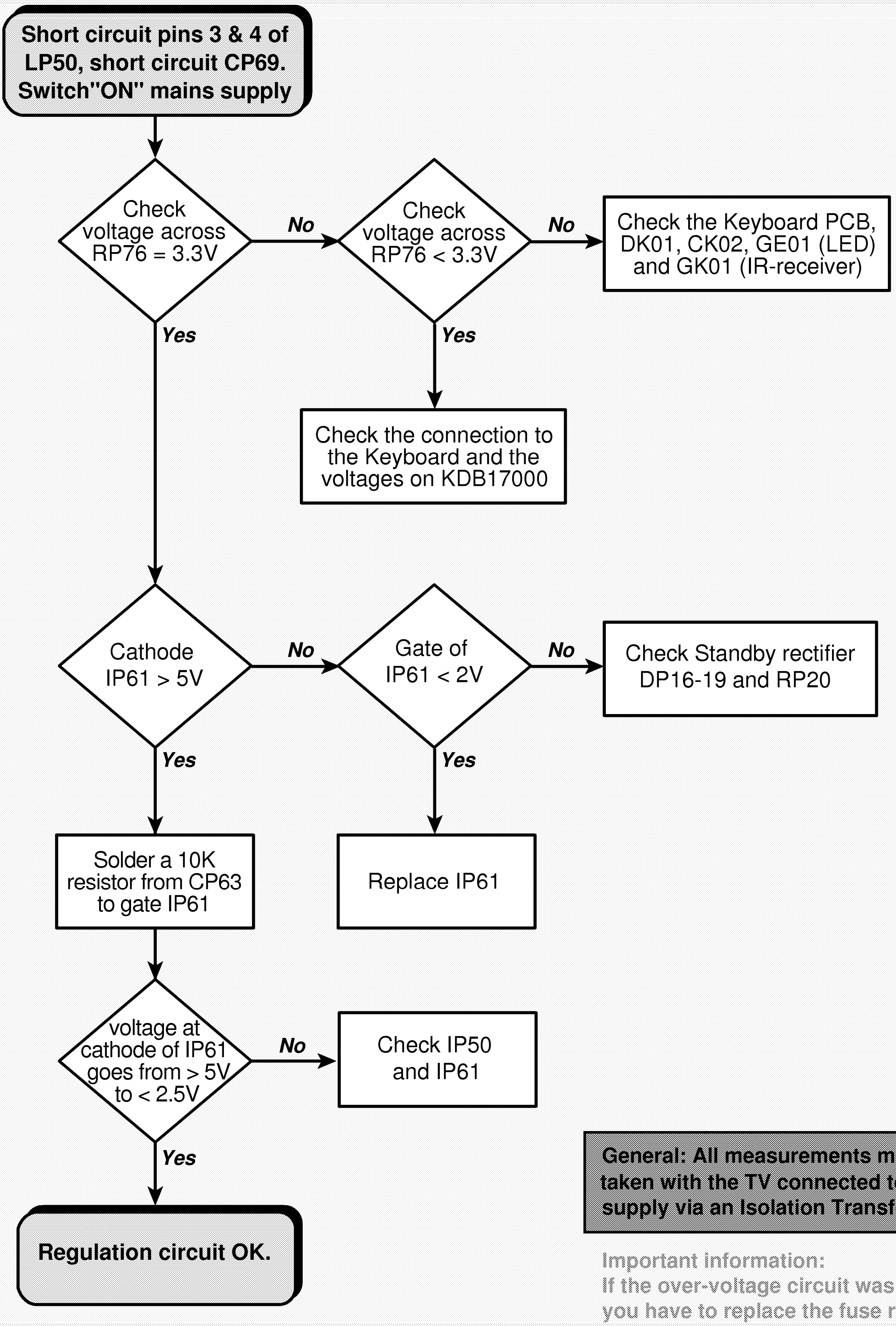
All measurements in this chapter must be done WITHOUT the mains supply connected to the TV.

Test circuit:

The external voltage source is provided by a variable DC-power supply with its output voltage set to 11V and the current limitation set to 500mA's. The negative terminal of the DC-power supply must be directly connected to the chassis secondary ground plane. The positive terminal of the DC-power supply is first connected to an ammeter and then the anode of an isolation diode. The cathode of the isolation diode is then connected to the load on the chassis as shown below. Measure the current drawn by each load tested.



STANDBY POWER SUPPLY - SECONDARY SIDE

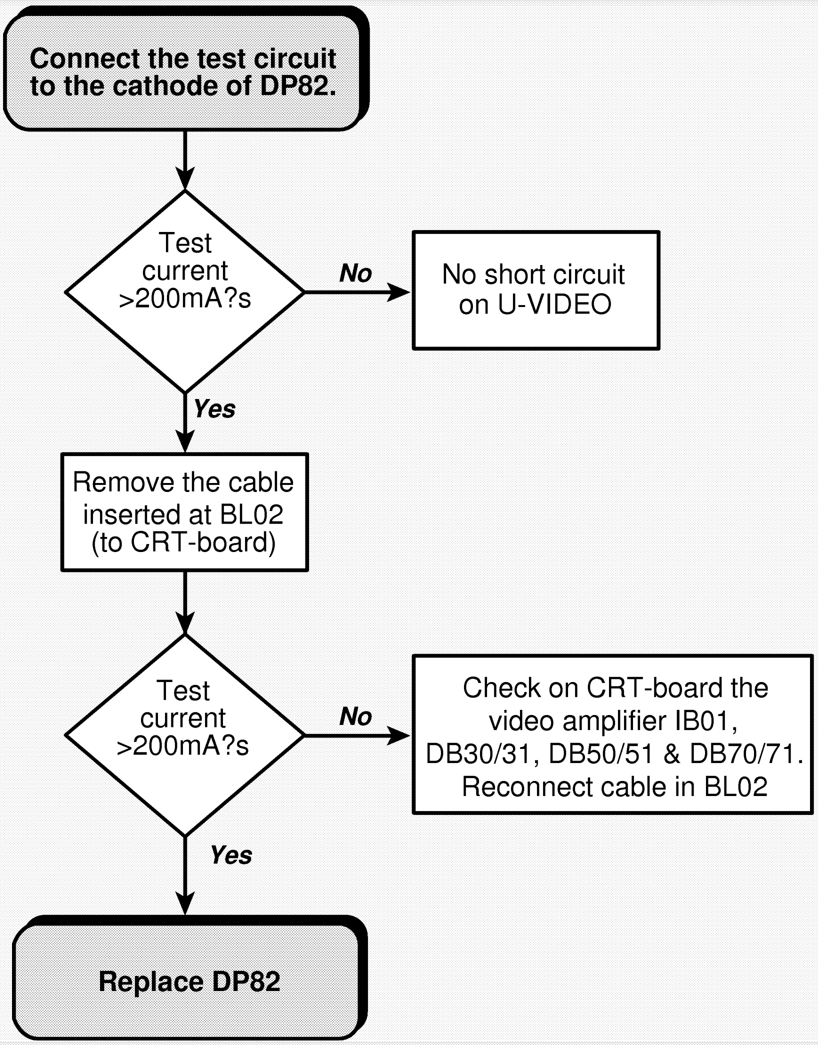

Short circuit pins 3 & 4 of LP50, short circuit CP69. Switch"ON" mains supply
Check voltage across RP76 = 3.3V
No
Check voltage across RP76 < 3.3V
No
Check the Keyboard PCB, DK01, CK02, GE01 (LED) and GK01 (IR-receiver)
Yes
Yes
Check the connection to the Keyboard and the voltages on KDB17000
Cathode IP61 > 5V
No
Gate of IP61 < 2V
No
Check Standby rectifier DP16-19 and RP20
Yes
Yes
Solder a 10K resistor from CP63 to gate IP61
Replace IP61
voltage at cathode of IP61 goes from > 5V to < 2.5V
No
Check IP50 and IP61
Yes
Regulation circuit OK.

After finishing this test, please remove the short circuits from pins 3/4 of LP50 and CP69 also remove the 10k resistor.

General: All measurements must be taken with the TV connected to the mains supply via an Isolation Transformer.

**Important information:
If the over-voltage circuit was activated, you have to replace the fuse resistor at location RB/LB06 on the CRT-board.**

POWER SUPPLY - SECONDARY SIDE : U-VIDEO

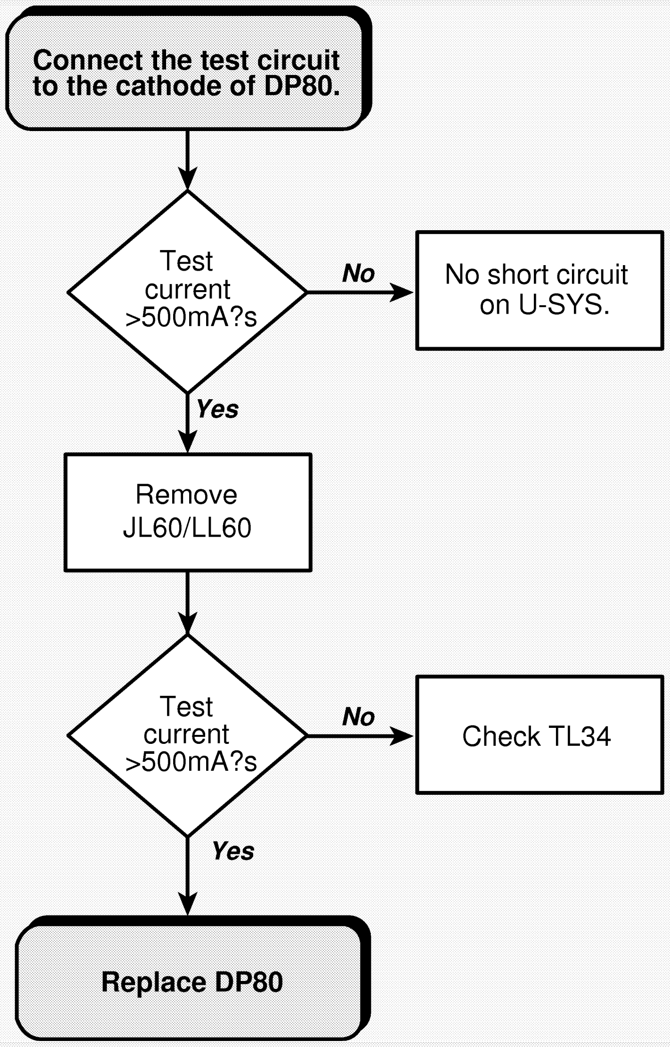

Connect the test circuit to the cathode of DP82.
Test current >200mA?s
No
No short circuit on U-VIDEO
Yes
Remove the cable inserted at BL02 (to CRT-board)
Test current >200mA?s
No
Check on CRT-board the video amplifier IB01, DB30/31, DB50/51 & DB70/71. Reconnect cable in BL02
Yes
Replace DP82

After finishing this test, please replace cable BL02 and remove the test circuit.

General: All measurements must be taken with the TV connected to the mains supply via an Isolation Transformer.

**Important information:
If the over-voltage circuit was activated, you have to replace the fuse resistor at location RB/LB06 on the CRT-board.**

POWER SUPPLY - SECONDARY SIDE : U-SYS

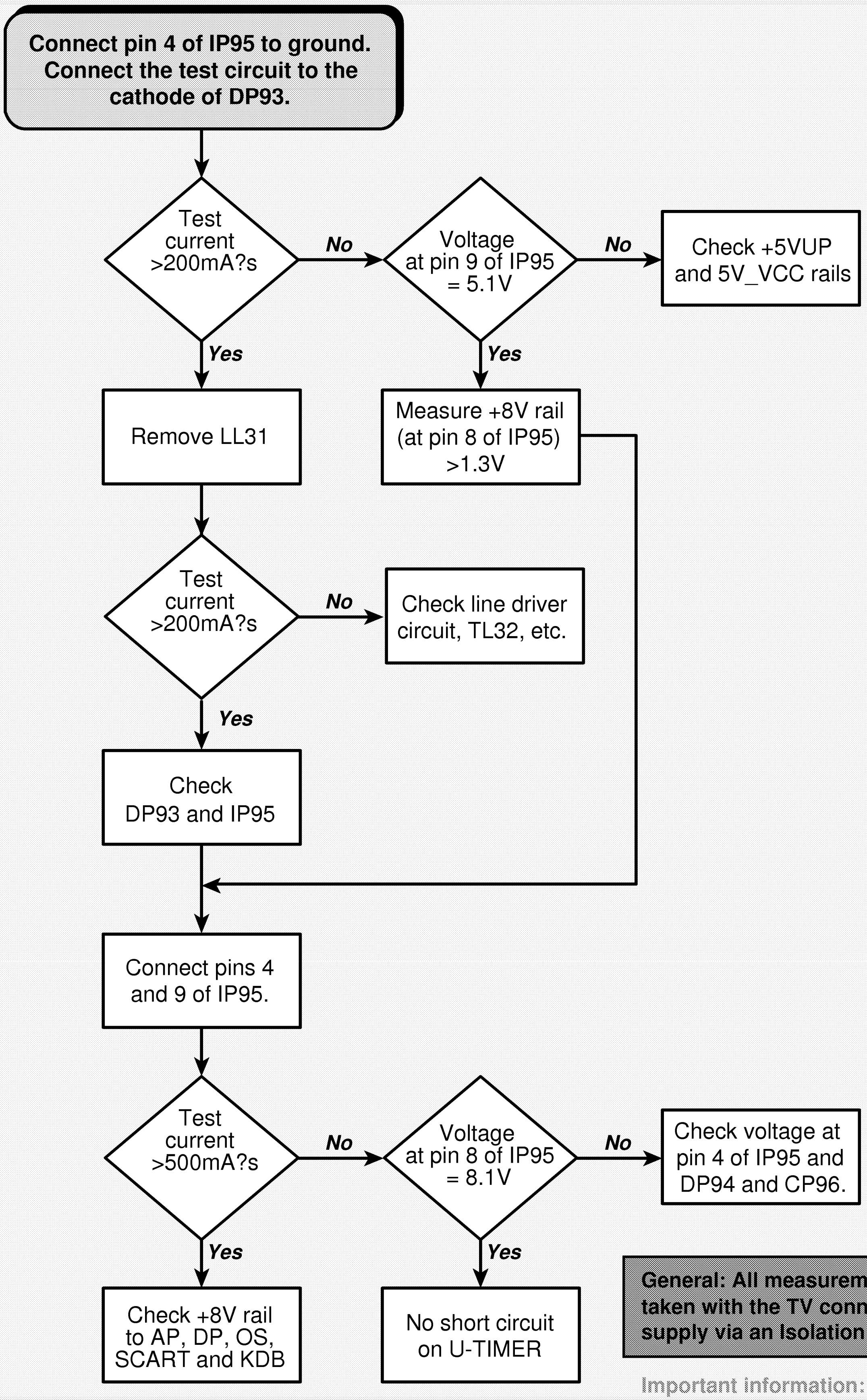

Connect the test circuit to the cathode of DP80.
Test current >500mA?s
No
No short circuit on U-SYS.
Yes
Remove JL60/LL60
Test current >500mA?s
No
Check TL34
Yes
Replace DP80

After finishing this test, please replace JL60/LL60 and remove the test circuit.

General: All measurements must be taken with the TV connected to the mains supply via an Isolation Transformer.

Important information:
If the over-voltage circuit was activated, you have to replace the fuse resistor at location RB/LB06 on the CRT-board.

POWER SUPPLY - SECONDARY SIDE : U-TIMER

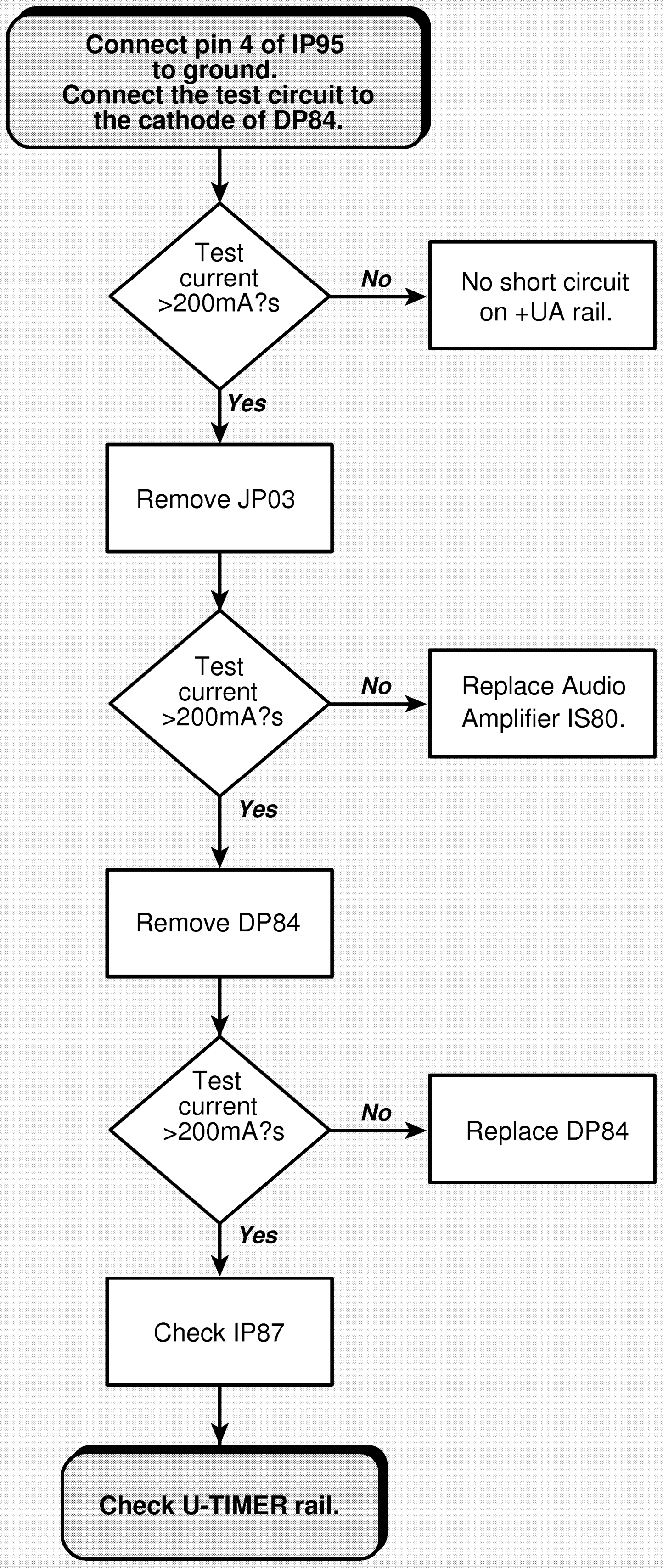

Connect pin 4 of IP95 to ground. Connect the test circuit to the cathode of DP93.
Test current >200mA?s
No
Voltage at pin 9 of IP95 = 5.1V
No
Check +5VUP and 5V_VCC rails
Yes
Remove LL31
Yes
Measure +8V rail (at pin 8 of IP95) >1.3V
Test current >200mA?s
No
Check line driver circuit, TL32, etc.
Yes
Check DP93 and IP95
Connect pins 4 and 9 of IP95.
Test current >500mA?s
No
Voltage at pin 8 of IP95 = 8.1V
No
Check voltage at pin 4 of IP95 and DP94 and CP96.
Yes
Yes
Check +8V rail to AP, DP, OS, SCART and KDB
No short circuit on U-TIMER

After finishing this test, please replace LL31, remove the link between pins 4 and 9 of IP95 and remove the test circuit.

General: All measurements must be taken with the TV connected to the mains supply via an Isolation Transformer.

Important information:
If the over-voltage circuit was activated, you have to replace the fuse resistor at location RB/LB06 on the CRT-board.

POWER SUPPLY - SECONDARY SIDE : +UA


Connect pin 4 of IP95 to ground. Connect the test circuit to the cathode of DP84.
Test current >200mA?s
No
No short circuit on +UA rail.
Yes
Remove JP03
Test current >200mA?s
No
Replace Audio Amplifier IS80.
Yes
Remove DP84
Test current >200mA?s
No
Replace DP84
Yes
Check IP87
Check U-TIMER rail.

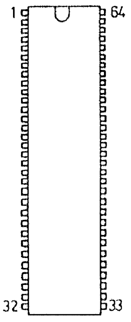
General: All measurements must be taken with the TV connected to the mains supply via an Isolation Transformer.

Important information:
If the over-voltage circuit was activated, you have to replace the fuse resistor at location RB/LB06 on the CRT-board.

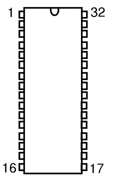
LIST OF ABBREVIATIONS - LISTE DES ABREVIATIONS- ABKÜRZUNGEN
LISTA DELLE ABBREVIAZIONI - LISTA DE ABREVIACIONES

+USYS:	System voltage
+U_VIDEO:	Video drive voltage for the CRT board
+ STDBY_ ON:	Standby data (0V standby , 0.6v switched ON)
+5V DST:	5v unregulated voltage from the DST to supply the tuner and audio MSP device
+5V ON:	5v regulated voltage from the DST to supply the tuner and audio MSP device
+5V UP :	Microprocessor supply voltage
BCL:	Beam current limiting information
CVBS:	Composite video / luminance signal
CVBS_OUT:	Composite video output
CVBS_TXT:	Composite video for teletext extraction
DEGAUSS:	Degauss signal
EW :	East / West
FORMAT / BC:	Full white control DATA depending on 16/9 selected format
HDRV:	Horizontal deflection signal
HTR1 / HTR2:	Heater voltage from the DST to CRT PCB
LFB:	Line Fast Blanking
MUTE :	Mutes audio amplifiers
PO:	“Power ON “ IP95 : reset activated and output = 8v “PO” = 5v when TV is working in normally
POWER_FAIL:	Detection of mains supply and deflection stage failures
RESET:	Microprocessor reset signal
SAFETY:	Safety information from the deflection stage
SCL:	Serial Clock
SDA :	Serial Data
SIF:	Sound IF
TRAP_INFO:	31.4Mhz IF trap activation
U_ STANDBY:	Standby voltage
U_DRIVER:	Horizontal sync signal from TDA8855H
U_TIMER:	11v voltage used during “Switch ON “ phase and “Wake Up“ mode
V FLB:	Vertical flyback reference for the microprocessor
V GUARD:	Safety data generated by the vertical amplifier TDA 8351
V_RETRACE:	42 / 48volts (depending on tube type) generated by the DST and used for vertical blanking
V_SUPPLY:	13.5 to 15.5 volts (depending on tube type) generated by the DST

INTEGRATED CIRCUITS AND TRANSISTORS OUTLINE -
CIRCUITS INTEGRES ET TRANSISTORS
INTEGRIERTE SCHALTUNGEN UND TRANSISTOREN -
CIRCUITI INTEGRATI TRANSISTOR
CIRCUITOS INTEGRADOS Y TRANSISTORES



MPS3400C-PP-C6



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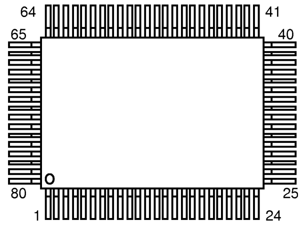
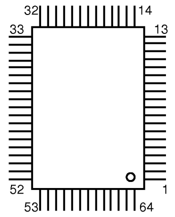
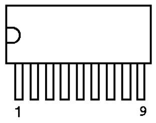

64
41
65
40
80
25
1
24

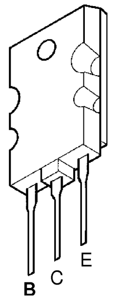
ST92R195


32
14
33
13
52
1
53
64

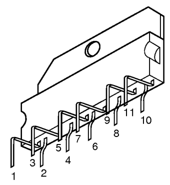
TDA8855H



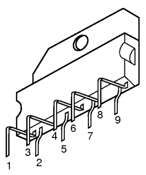
TDA8351



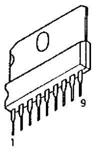
BUH516TH16


1
3
2
5
4
7
6
9
8
11
10

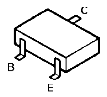
TDA7269



TDA6107Q



TDA 8139



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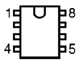
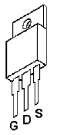
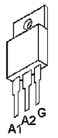
BC 857B
BCR141
BCR191
DTC113ZK
DTC144EK
TN1401



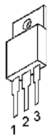
ST24C08-M
TS3702CD



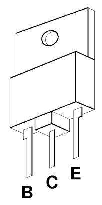
STP6 NA60F1



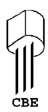
BT806 -600C



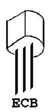
MC7812/CT



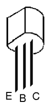
BD241C



BC 337
BC 546B
BC 547B



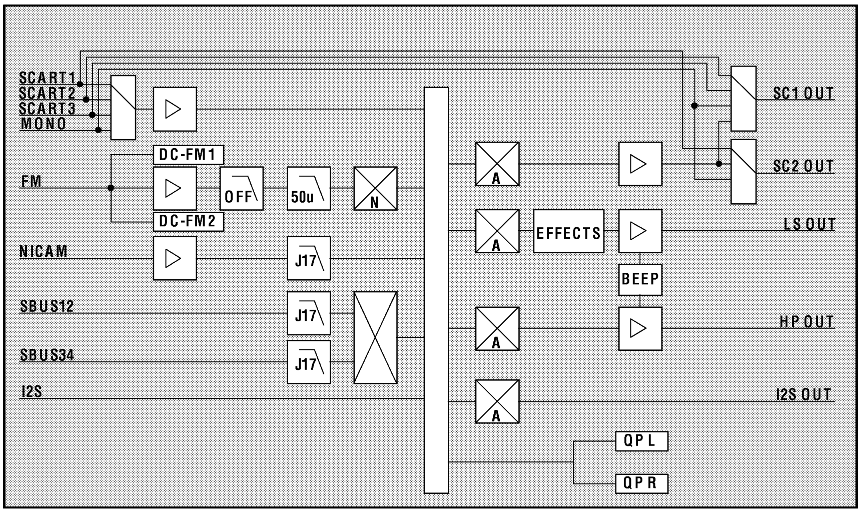
BF 422
BF423
2SA1020Y
2SC2236Y



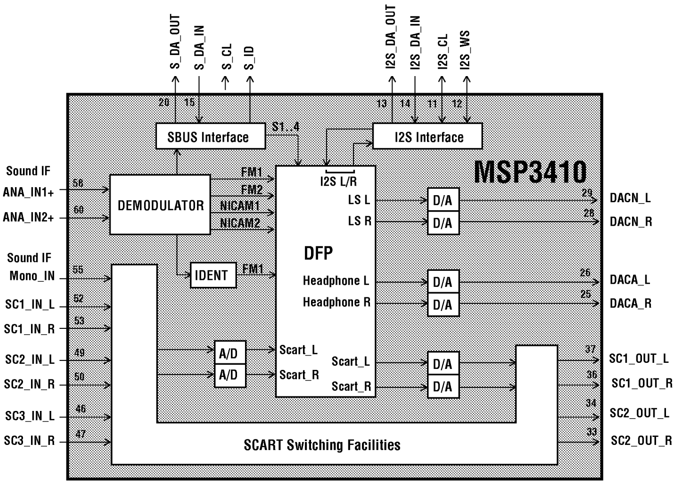
MPS750

INTEGRATED CIRCUITS BLOCK DIAGRAMS -
SYNOPTIQUES INTERNES DES CIRCUITS INTEGRES -
INTEGRIERTE SCHALTUNGEN BLOCKSCHALTBILDER
SCHEMA A BLOCCHI DEI CIRCUITI INTEGRATI -
VISTA INTERNA DE LOS CIRCUITOS INTEGRADOS

Audio baseband processing of the MSP3410

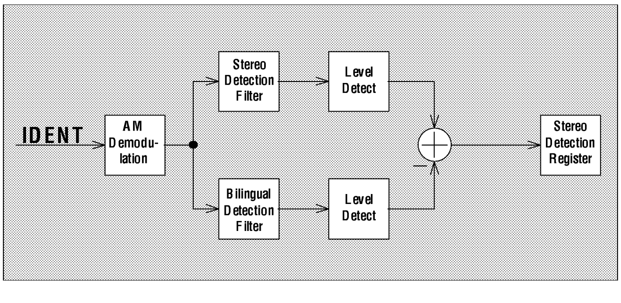


SCART1
SCART2
SCART3
MONO
DC-FM1
FM
OFF
50u
N
DC-FM2
NICAM
J17
SBUS12
J17
SBUS34
J17
I2S
A
A
EFFECTS
A
A
BEEP
SC1 OUT
SC2 OUT
LS OUT
HP OUT
I2S OUT
QPL
QPR



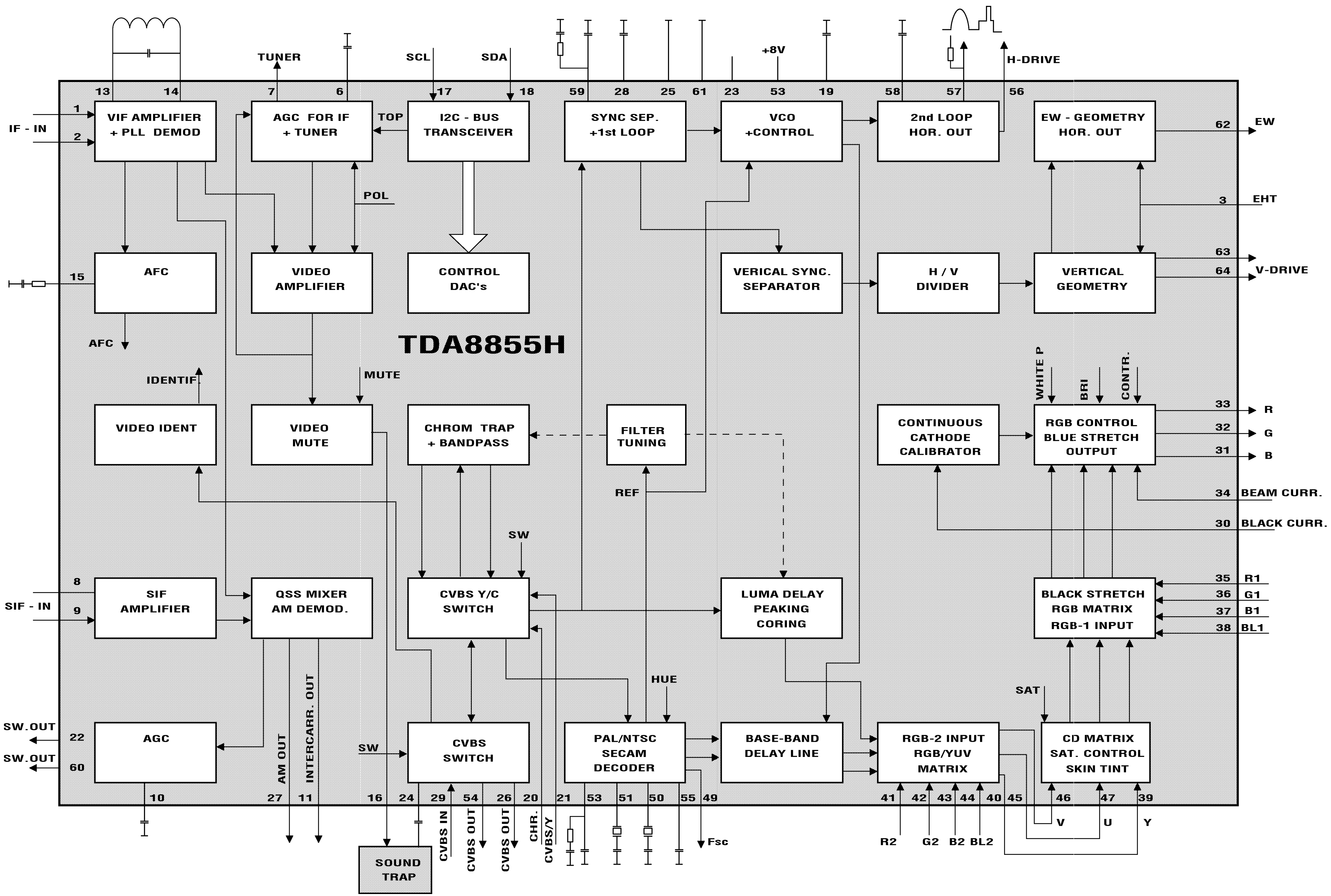
S_DA_OUT
S_DA_IN
S_CL
S_ID
I2S_DA_OUT
I2S_DA_IN
I2S_CL
I2S_WS
20
15
13
14
11
12
SBUS Interface
S1..4
I2S Interface
MSP3410
Sound IF
ANA_IN1+
58
ANA_IN2+
60
DEMODULATOR
FM1
FM2
NICAM1
NICAM2
I2S L/R
LS L
LS R
D/A
D/A
29
DACN_L
28
DACN_R
DFP
Sound IF
Mono_IN
55
IDENT
FM1
Headphone L
Headphone R
D/A
D/A
26
DACA_L
25
DACA_R
SC1_IN_L
52
SC1_IN_R
53
SC2_IN_L
49
SC2_IN_R
50
A/D
A/D
Scart_L
Scart_R
Scart_L
Scart_R
D/A
D/A
37
SC1_OUT_L
36
SC1_OUT_R
34
SC2_OUT_L
33
SC2_OUT_R
SC3_IN_L
46
SC3_IN_R
47
SCART Switching Facilities

Detection part of the MSP 3410

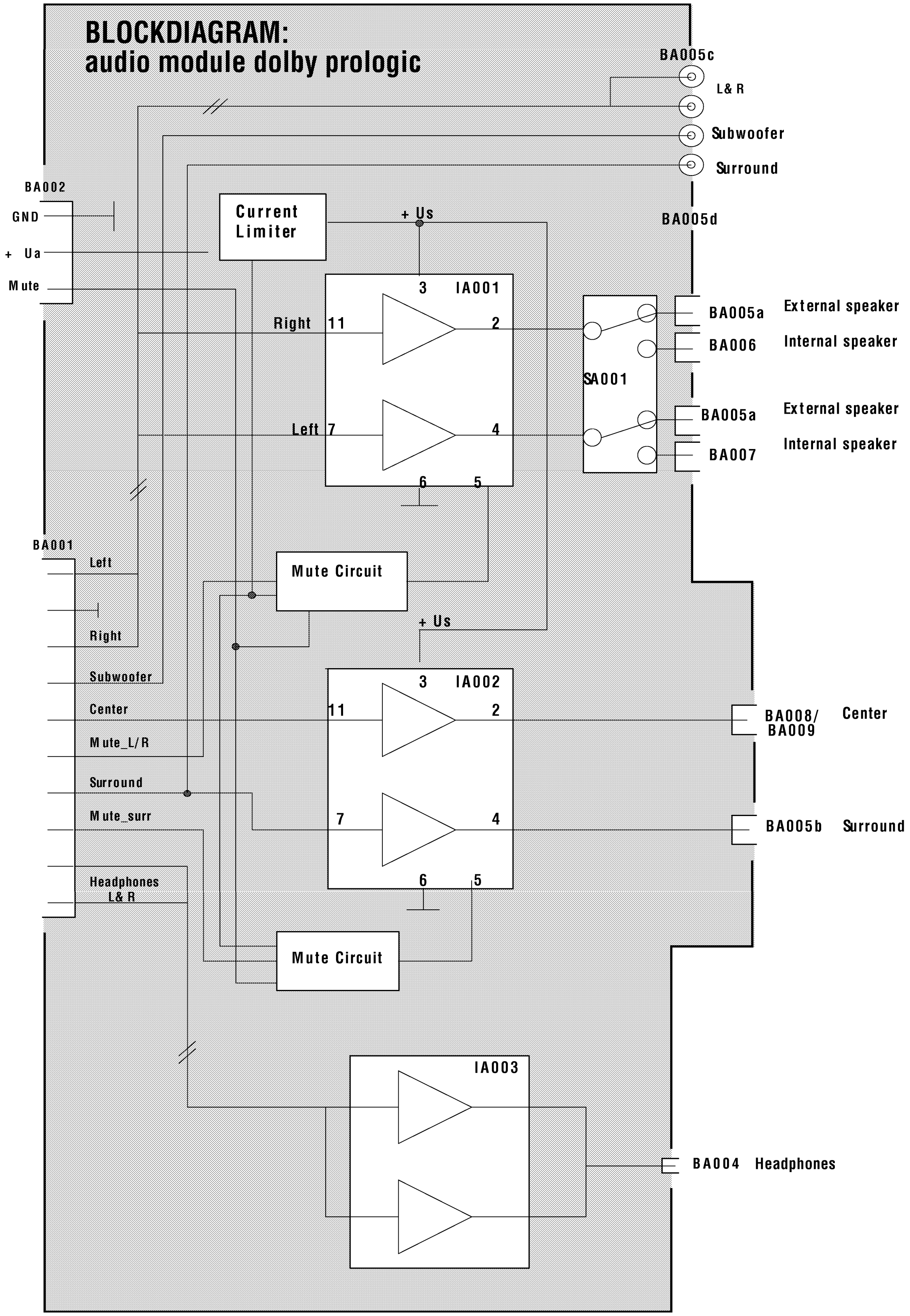


IDENT
AM Demodu-lation
Stereo Detection Filter
Level Detect
Bilingual Detection Filter
Level Detect
+
−
Stereo Detection Register

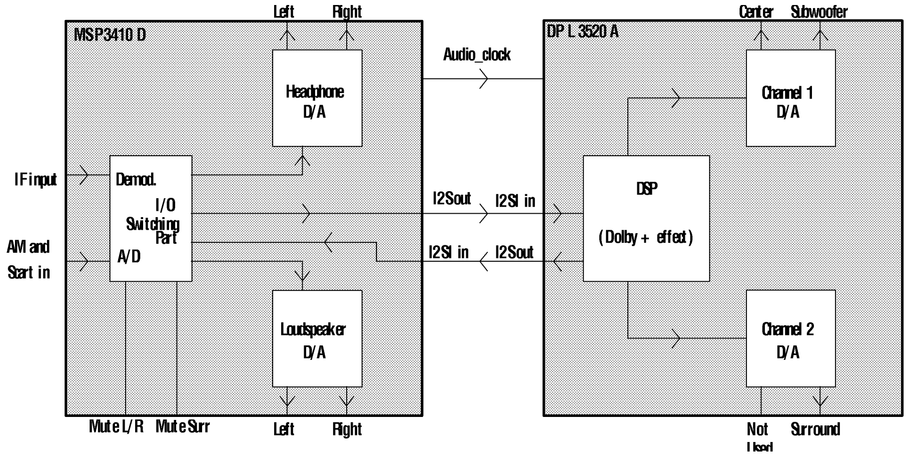
IV01 TDA 8855H


TUNER
SCL
SDA
+8V
H-DRIVE
13
14
7
6
17
18
59
28
25
61
23
53
19
58
57
56
IF - IN
1
2
VIF AMPLIFIER + PLL DEMOD
AGC FOR IF + TUNER
TOP
I2C - BUS TRANSCEIVER
SYNC SEP. +1st LOOP
VCO +CONTROL
2nd LOOP HOR. OUT
EW - GEOMETRY HOR. OUT
62
EW
POL
3
EHT
15
AFC
VIDEO AMPLIFIER
CONTROL DAC's
VERICAL SYNC. SEPARATOR
H / V DIVIDER
VERTICAL GEOMETRY
63
64
V-DRIVE
AFC
TDA8855H
IDENTIF.
MUTE
WHITE P
BRI
CONTR.
VIDEO IDENT
VIDEO MUTE
CHROM TRAP + BANDPASS
FILTER TUNING
CONTINUOUS CATHODE CALIBRATOR
RGB CONTROL BLUE STRETCH OUTPUT
33
R
32
G
31
B
REF
34
BEAM CURR.
30
BLACK CURR.
SW
8
SIF - IN
9
SIF AMPLIFIER
QSS MIXER AM DEMOD.
CVBS Y/C SWITCH
LUMA DELAY PEAKING CORING
BLACK STRETCH RGB MATRIX RGB-1 INPUT
35
R1
36
G1
37
B1
38
BL1
HUE
SAT
SW.OUT
22
SW.OUT
60
AGC
AM OUT
INTERCARR. OUT
SW
CVBS SWITCH
PAL/NTSC SECAM DECODER
BASE-BAND DELAY LINE
RGB-2 INPUT RGB/YUV MATRIX
CD MATRIX SAT. CONTROL SKIN TINT
10
27
11
16
24
29
54
26
20
21
53
51
50
55
49
41
42
43
44
40
45
46
47
39
SOUND TRAP
CVBS IN
CVBS OUT
CVBS OUT
CHR.
CVBS/Y
Fsc
V
U
Y
R2
G2
B2
BL2

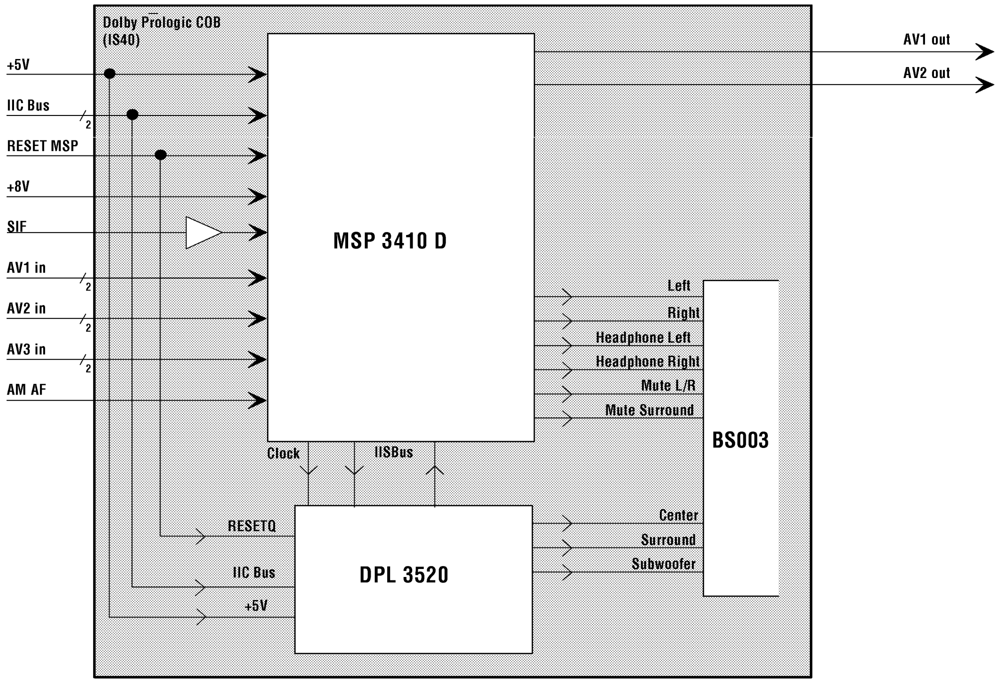
BLOCK DIAGRAM (AUDIO MODULE DOLBY PROLOGIC)
SCHEMA SYNOPTIQUE (AUDIO MODULE DOLBY PROLOGIC)
BLOCKSCHALTBILD (AUDIO MODULE DOLBY PROLOGIC)
SCHEMA A BLOCCI (AUDIO MODULE DOLBY PROLOGIC)
ESQUEMA DE BLOQUES (AUDIO MODULE DOLBY PROLOGIC)


BLOCKDIAGRAM:
audio module dolby prologic
BA005c
L& R
Subwoofer
Surround
BA002
GND
+ Ua
Mute
Current Limiter
+ Us
BA005d
3
IA001
Right
11
2
Left
7
4
6
5
SA001
BA005a
External speaker
BA006
Internal speaker
BA005a
External speaker
BA007
Internal speaker
BA001
Left
Right
Subwoofer
Center
Mute_L/R
Surround
Mute_surr
Headphones
L& R
Mute Circuit
+ Us
3
IA002
11
2
7
4
6
5
BA008/
BA009
Center
BA005b
Surround
Mute Circuit
IA003
BA004
Headphones

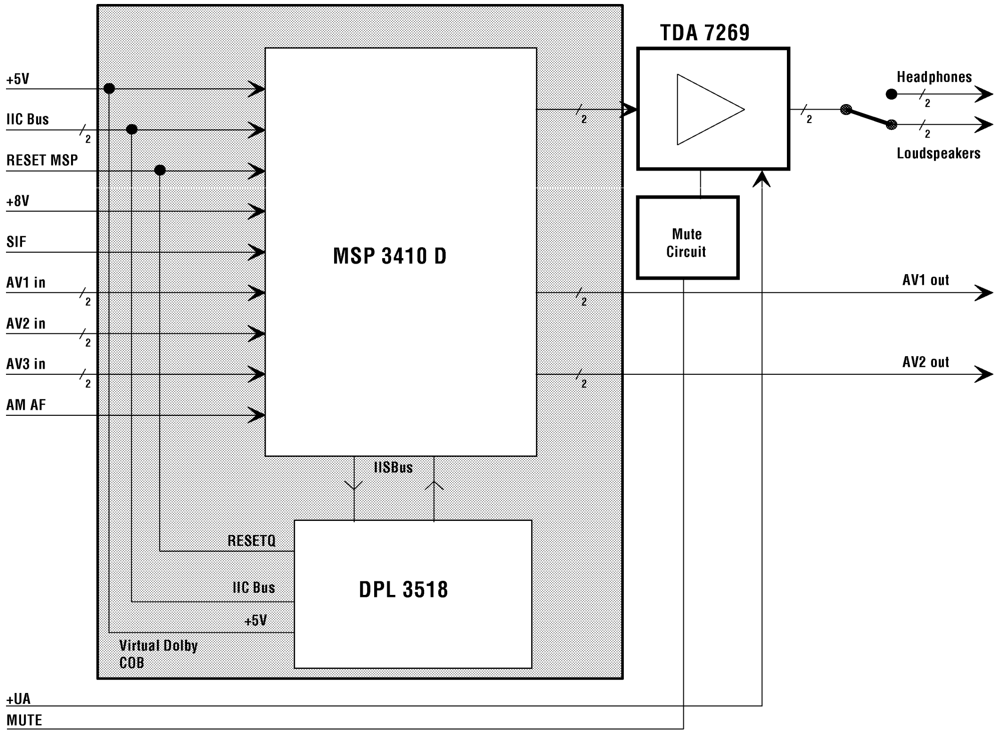
Interface requirement audio part with Dolby Prologic


MSP3410 D
Left
Right
Headphone D/A
IF input
AM and Scart in
Demod.
I/O Switching Part
A/D
Loudspeaker D/A
Mute L/R
Mute Surr
Left
Right
Audio_clock
I2Sout
I2SI in
I2SI in
I2Sout
DP L 3520 A
Center
Subwoofer
Channel 1 D/A
DSP
(Dolby + effect)
Channel 2 D/A
Not Used
Surround

Block diagram Dolby Prologic


Dolby Prologic COB (IS40)
+5V
IIC Bus
RESET MSP
+8V
SIF
AV1 in
AV2 in
AV3 in
AM AF
2
MSP 3410 D
AV1 out
AV2 out
Left
Right
Headphone Left
Headphone Right
Mute L/R
Mute Surround
BS003
Clock
IISBus
RESETQ
IIC Bus
+5V
DPL 3520
Center
Surround
Subwoofer

Block diagram Virtual Dolby


+5V
IIC Bus
RESET MSP
+8V
SIF
AV1 in
AV2 in
AV3 in
AM AF
2
MSP 3410 D
TDA 7269
Headphones
Loudspeakers
Mute Circuit
AV1 out
AV2 out
IISBus
RESETQ
IIC Bus
+5V
DPL 3518
Virtual Dolby COB
+UA
MUTE

CÓDIGO DE CONDICIÓN | CÓDIGO DE SÍNTOMA PRINCIPAL | → CÓDIGO DE SÍNTOMA EXTENDIDO (*1)

SISTEMA DE LOS CÓDIGOS DE REPARACIÓN EACEM-IRIS

TABLA DE LOS CÓDIGOS DE SÍNTOMA

1	CONSTANTE
2	INTERMITENTE
3	DESPUÉS DE ALGÚN TIEMPO
4	CALIENTE
5	FRÍO
6	DURANTE LA CONEXIÓN
7	BAJO VIBRACIÓN
8	EN AMBIENTE HUMEDO/ MOJADO/ LLUVIOSO/ NEVADO
9	SECO
A	DESPUÉS DE UNA CAIDA/DAÑO EN EL TRANSPORTE
B	DESPUÉS DE RELÁMPAGO
C	SOLAMENTE ALGUNAS ESTACIONES/ SOFTWARE/ MODO/CANALES/ BANDA DE FRECUENCIA/ RED(ES)
D	SOLAMENTE ALGUNOS ESTANDARDS
E	SOLAMENTE UN CANAL
F	SOLAMENTE ALGUNAS ENTRADAS
G	SOLAMENTE ALGUNAS SALIDAS
H	EN MODO STANDBY/OFF
J	EN PUNTO DE EDICIÓN
K	INTER-CONECTADO CON OTROS APARATOS
L	CONTAMINACIÓN LÍQUIDA
M	BREVEMENTE DESPUÉS DE LA CONEXIÓN
N	DESPUÉS DE EFECTUAR UNA COPIA
O	BAJO CONDICIONES DE ESFUERZO/ALTA CARGA
P	DESCONECTADO

		1	INACTIVO	2	NIVEL	3	CALIDAD	4	RUIDO
1	GENERAL	**110** 111 112 113 114 115 116 117 118 119 11A 11B 11C 11D 11E 11F 11G 11H 11J 11X	**PROBLEMA DE ALIMENTACIÓN O NO FUNCIONA** NO HAY ALIMENTACIÓN NO HAY ALIMENTACIÓN CON ADAPTADOR DE C.A. NO HAY ALIMENTACIÓN CON BATERÍAS SECAS NO HAY ALIMENTACIÓN CON BATERÍAS RECARGABLES NO HAY ALIMENTACIÓN CON BATERÍAS SOLAR NO HAY ALIMENTACIÓN CON BATERÍAS COCHE CORTA DURACIÓN DE FUNCIONAMIENTO/DE BATERÍA NO HAY DESCONEXIÓN NO HAY CONEXIÓN DE STANDBY SOLAMENTE HAY ALIMENTACIÓN (NO OPERA) CONEXIÓN/DESCONEXIÓN CÍCLICA FUSIBLE EXTERNO (PRINCIPAL) FUNDIDO EL APARATO SE DESCONECTA SOLO PROBLEMA BATERÍA DE MANTENIMIENTO NO FUNCIONA NO HAY CONMUTACIÓN ON/OFF AUTOMÁTICA SE DISPARA FUSIBLE INTERNO/INTERRUPTOR DE PROTECCIÓN NO RECONOCE LA BATERÍA RECARGABLE OTRO PROBLEMA DE ALIMENTACIÓN	**120** 121 122 123 12X	**PROBLEMA DE CARGA** NO HAY CARGA DE BATERÍA CARGA INCOMPLETA DE BATERÍA TIEMPO DE CARGA MUY LARGO OTRO PROBLEMA DE CARGA	**130** 131 132 133 134 135 136 137 138 139 13A 13B 13C 13D 13E 13X	**PROBLEMA DE LA INDICACIÓN** FALLO EN EL INDICADOR FALLO EN LA OPERACIÓN DE LA LAMPADA/LED FALLO EN LA OPERACIÓN DEL MEDIDOR DE NIVEL FALLO EN LA OPERACIÓN DE LA INDICACIÓN FALLO EN LA INDICACIÓN DE LA SINTONÍA ELECTRÓNICA FALLO EN LA INDICACIÓN DE LA SINTONÍA MECÁNICA FALLO EN LA INDICACIÓN DEL CÓDIGO DE TIEMPO FALLO EN LA INDICACIÓN DE ALARM/ERROR DISPLAY BORROSO/DEMASIADO OSCURO MENSAJE EN EL DISPLAY INCORRECTO NO FUNCIONA LUZ INTERNA ‘NO INDICACIÓN DE “BEEPS”’ NO FUNCIONA LA LUZ DE PRECAUCIÓN LA LUZ DE PRECAUCIÓN SE ILUMINA OTRO PROBLEMA DE LA INDICACIÓN	**140** 141 142 143 144 145 146 147 148 149 14A 14X	**RUIDO ANORMAL** RUIDO DE DESCARGA DEL TUBO CATÓDICO RUIDO DE DESCARGA DEL BLOQUE DE ALTA TENSIÓN MUEBLE RUIDOSO/BANDEJA CRUJIENTE TRANSFORMADOR RUIDOSO/ZUMBIDO COMPONENTE(S) PERTURBADOR(ES) VIBRACIÓN CHASQUIDO RUIDO DE RELOJ CRUJIDO SILBIDO OTRO PROBLEMA DE RUIDO ANORMAL
2	COMUNICACIÓN	**210** 211 212 213 214 215 216 217 218 219 21A 21B 21C 21D 21E 21F 21X	**NO HAY RECEPCIÓN O CONEXIÓN** NO HAY RECEPCIÓN AM NO HAY RECEPCIÓN FM NO HAY RECEPCIÓN SW NO HAY RECEPCIÓN VHF NO HAY RECEPCIÓN UHF NO HAY RECEPCIÓN SHF NO HAY RECEPCIÓN CS NO HAY RECEPCIÓN HDTV NO HAY RECEPCIÓN GPS/QPS NO HAY RECEPCIÓN DE EMISORAS DIGITALES NO HAY RECEPCIÓN IR NO HAY SINTONÍA CON EL DIAL NO HAY CONEXIÓN MODEM/FAX MODEM NO CONTESTA/NO HAY PORTADORA NO HAY CONEXIÓN MODEM/FAX OTRO PROBLEMA DE 'NO HAY RECEPCIÓN'	**220** 221 222 223 224 225 226 227 228 229 22A 22B 22X	**NIVEL DE RECEPCIÓN O CONEXIÓN DÉBIL** RECEPCIÓN AM DÉBIL RECEPCIÓN FM DÉBIL RECEPCIÓN SW DÉBIL RECEPCIÓN VHF DÉBIL RECEPCIÓN UHF DÉBIL RECEPCIÓN SHF DÉBIL RECEPCIÓN POBRE CS RECEPCIÓN POBRE HDTV RECEPCIÓN POBRE GPS/QFS RECEPCIÓN POBRE DE EMISIÓN DIGITAL RECEPCIÓN POBRE IR OTRO PROBLEMA DEL NIVEL DE RECEPCIÓN DÉBIL	**230** 231 232 233 234 235 236 237 238 239 23X	**PROBLEMA DE TRANSMISIÓN/CONEXIÓN** NO HAY TRANSMISIÓN/CONEXIÓN TRANSMISIÓN/CONEXIÓN DÉBIL NIVEL DE TRANSMISIÓN EXCESIVO NO HAY TRANSMISIÓN ENTRE LA UNIDAD DE BASE Y LA UNIDAD PORTÁTIL COMUNICACIÓN DEBIL ENTRE LA UNIDAD DE BASE Y LA UNIDAD PORTÁTIL NO HAY TRANSMISIÓN IR CONEXIÓN DE UNA CARA MODEM SE CUELGA INMEDIATAMENTE AL CONECTARSE MODEM PIERDE LA LÍNEA DURANTE LA CONEXIÓN OTRO PROBLEMA DE TRANSMISIÓN/CONEXIÓN	**240** 241 242 243 24X	**COMUNICACIÓN RUIDOSA** RUIDOS DE LÍNEA OSCILACIÓN INTERFERENCIA ENTRE ESTACIONES OTRO PROBLEMA DE COMUNICACIÓN RUIDOSA
3	IMAGEN	**310** 311 312 313 314 315 316 317 318 319 31X	**NO HAY IMAGEN** NO HAY IMAGEN EN EL MODO EE NO HAY IMAGEN EN LA REPRODUCCIÓN NO HAY IMAGEN EN EL VISOR NO HAY IMAGEN/SOLO TRAMA PANTALLA NEGRA SÓLO LÍNEA HORIZONTAL SÓLO LÍNEA VERTICAL NO HAY IMAGEN EN EL LCD NO HAY INDICACIÓN DE 2º MONITOR (U OTRO) OTRO PROBLEMA DE NO HAY IMAGEN	**320** 321 322 323 324 325 326 327 32X	**PROBLEMA DEL NIVEL DE IMAGEN** IMAGEN DEMASIADO OBSCURA IMAGEN DEMASIADO CLARA CONTRASTE DÉBIL CONTRASTE ALTO SATURACIÓN DEL NIVEL DEL BLANCO O DEL NEGRO SOMBRA EN LA IMAGEN SOLO PARTE DE LA IMAGEN OTRO PROBLEMA DEL NIVEL DE IMAGEN	**330** 331 332 333 334 335 336 337 338 339 33A 33X	**PROBLEMA DE LA CALIDAD DE IMAGEN** RESOLUCIÓN DÉBIL DE LA IMAGEN ENFOQUE ERRÓNEO OSCILACIÓN TRANSITORIA EN LA IMAGEN BORROSIDAD/RETARDO FALLO DE LINEALIDAD O GEOMETRÍA DIMENSIÓN ERRÓNEA CENTRADO ERRÓNEO DE LA IMAGEN IMAGEN INCLINADA INCORRECTO TAMAÑO V INCORRECTO TAMAÑO H OTRO PROBLEMA DE LA CALIDAD DE IMAGEN	**340** 341 342 343 344 345 346 347 348 349 34A 34B 34X	**IMAGEN RUIDOSA** NIEVE EN LA IMAGEN RUIDO DE PUNTOS/PÉRDIDAS EN LA IMAGEN BARRAS DE RUIDO EN LA IMAGEN LÍNEAS DE BORRADO EN LA IMAGEN BATIDO EN LA IMAGEN HALOS EN LA IMAGEN RUIDO DE CONMUTACIÓN DE CABEZAS EN LA IMAGEN RUIDO DE SOBREMODULACIÓN MOIRÉ RUIDO EN MOSAICO IMAGEN DIFICULTOSA OTRO PROBLEMA DE IMAGEN RUIDOSA
4	COLOR	**410** 411 412 413 414 41X	**NO HAY COLOR** NO HAY COLOR EN EL MODO EE NO HAY COLOR EN LA REPRODUCCIÓN NO HAY COLOR EN EL VISOR NO HAY COLOR EN PARTE DE LA IMAGEN OTRO PROBLEMA DE NO HAY COLOR	**420** 421 422 42X	**PROBLEMA DEL NIVEL DE COLOR** COLOR DÉBIL COLOR EXCESIVO/SATURADO OTRO PROBLEMA DEL NIVEL DE COLOR	**430** 431 432 433 434 435 436 437 438 439 43X	**PROBLEMA DE LA CALIDAD DE COLOR** PÉRDIDA DE UNO O DOS COLORES FALLO DEL BALANCE DE BLANCO PROBLEMA DEL MATIZ ERROR DE PUREZA ERROR DE PUREZA/BLANCO UNIFORME ERROR DE CONVERGENCIA REGISTRO DE COLOR ERRÓNEO MOARÉ EN LA IMAGEN/PATRÓN DE ARCO IRIS DESPLAZAMIENTO DEL COLOR OTRO PROBLEMA DE LA CALIDAD DE COLOR	**440** 441 442 443 44X	**COLOR RUIDOSO** COLOR RUIDOSO EN BLANCO Y NEGRO RAYAS DE COLOR BARRAS DE COLOR EN PANTALLA OTRO PROBLEMA DE COLOR RUIDOSO
5	SONIDO	**510** 511 512 513 514 515 516 517 518 519 51X	**NO HAY SONIDO** NO HAY SONIDO EN EL MODO EE NO HAY REPRODUCCIÓN DE LOS MENSAJES TELEFÓNICOS NO HAY REPRODUCCIÓN DE LOS MENSAJES RECIBIDOS NO HAY REPRODUCCIÓN DE SONIDO NO HAY SONIDO EN EL MICROTELÉFONO NO HAY SONIDO EN EL ALTAVOZ NO HAY SONIDO EN EL AURICULAR NO HAY SONIDO EN EL MICRÓFONO NO HAY SONIDO EN LA SALIDA DIGITAL OTRO PROBLEMA DE NO HAY SONIDO	**520** 521 522 523 524 525 52X	**PROBLEMA DEL NIVEL DE SONIDO** NIVEL DÉBIL DEL SONIDO NIVEL EXCESIVO DEL SONIDO PROBLEMA DE BALANCE PROBLEMA DE DESVANENCIMIENTO PERMANENCIA DEL NIVEL DE AUDIO/NO HAY MUTING OTRO PROBLEMA DEL NIVEL DE SONIDO	**530** 531 532 533 534 535 53X	**PROBLEMA DE LA CALIDAD DE SONIDO** RESPUESTA DE FRECUENCIA DÉBIL DISTORSIÓN DEL SONIDO NO HAY AGUDOS NO HAY GRAVES DÉBIL SONIDO EN EL AURICULAR OTRO PROBLEMA DE LA CALIDAD DE SONIDO	**540** 541 542 543 544 545 546 547 548 549 54X	**SONIDO RUIDOSO** ZUMBIDO SILBIDO DIAFONÍA ESTÁTICO/'POP'/CHASQUIDO ZUMBIDO RUIDO DE POTENCIÓMETRO RUIDO DE ENCENDIDO RUIDO SILBANTE/MULTIPISTA RUIDO EN DATOS DIGITALES OTRO PROBLEMA DE SONIDO RUIDOSO
6	MECÁNICA	**610** 611 612 613 614 615 616 617 618 619 61A 61B 61X	**NO HAY FUNCIONAMIENTO MECÁNICO** NO HAY GIRO DEL DISCO/MOTOR NO HAY FWD NO HAY REVERSE NO HAY FF O REW NO HAY CARGA NO HAY EXPULSIÓN O DESCARGA NO HAY PARO AUTOMÁTICO NO HAY MOVIMIENTO DEL BRAZO NO HAY EXPULSIÓN DEL DISCO CARGA/DESCARGA DEL CARGADOR O MÓDULO NO FUNCIONA INTERRUPTOR/CONTROL OTRO PROBLEMA DE NO HAY FUNCIONAMIENTO MECÁNICO	**620** 621 622 623 624 625 626 627 628 629 62A 62B 62X	**OPERACIÓN MECÁNICA IRREGULAR** ROTACIÓN IRREGULAR FWD IRREGULAR REVERSE IRREGULAR FF O REW IRREGULAR CARGA IRREGULAR DEL SISTEMA EXPULSIÓN O DESCARGA IRREGULAR PARO AUTOMÁTICO IRREGULAR MOVIMIENTO IRREGULAR DEL BRAZO EXPULSIÓN IRREGULAR DEL DISCO CAMBIO IRREGULAR DE LA DIRECCIÓN FALLO EN LA OPERACIÓN DE CAMBIO DE DISCO OTRO PROBLEMA DE OPERACIÓN MECÁNICA IRREGULAR	**630** 631 632 633 63X	**PROBLEMA DE VELOCIDAD** DEMASIADO RÁPIDO DEMASIADO LENTO VELOCIDAD INAJUSTABLE OTRO PROBLEMA DE VELOCIDAD	**640** 641 642 643 644 645 646 647 648 649 64A 64B 64C 64X	**RUIDO MECÁNICO** RUIDO DE ROTACIÓN/TAMBOR RUIDO DE MOTOR RUIDO DE VIENTO/AIRE CHILLIDO RUIDO DE VENTILADOR ROZAMIENTO DE DISCO RUIDO DE CARGA DE CINTA RUIDO DE ENGRANAJE RUIDO DE CONMUTACIÓN O DE CONTROL RECHINAR RETUMBAR RUIDO VIBRANTE OTRO PROBLEMA DE RUIDO MECÁNICO
7	PROCESADO DE DATOS	**710** 711 712 713 714 715 716 717 718 719 71A 71B 71X	**NO HAY PROCESADO DE DATOS** NO HAY PANTALLA INICIAL NO HAY REINICIACIÓN/RESET DEL SISTEMA NO HAY ARRANQUE DEL SISTEMA MODULA ENCHUFABLE/PERIFÉRICO NO FUNCIONA TECLADO NO FUNCIONA NO FUNCIONA DESDE OTRA ENTRADA/SALIDA NO ALMACENA DATOS NO HAY CONMUNICACIÓN DE DATOS MENSAJE ERRÓNEO DEL INDICADOR ERROR ARRANQUE HDD ERROR ARRANQUE FDD OTRO PROBLEMA DE NO HAY PROCESADO DE DATOS	**720** 721 722 723 724 725 726 727 728 729 72A 72X	**PROCESADO DE DATOS ERRÓNEO** DATOS ERRÓNEOS RESET DE SISTEMA DURANTE FUNCIONAMIENTO INTERRUPCIÓN DEL SISTEMA/CAÍDA/BLOQUEO ERROR DEL MÓDULO ENCHUFABLE FUNCIONAMIENTO ERRÓNEO DEL TECLADO FUNCIONAMIENTO ERRÓNEO DESDE OTRA ENTRADA/SALIDA ALMACENAMIENTO ERRÓNEO DE DATOS COMUNICACIÓN DE DATOS ERRÓNEA ERROR DE MEMORIA ‘NECESITA “SETUP” EN EL ARRANQUE’ OTRO PROBLEMA DE PROCESADO DE DATOS ERRÓNEO	**730** 731 732 733 734 735 736 737 73X	**PROBLEMA DE VISUALIZACIÓN DE DATOS** CARACTERES ERRÓNEOS FALTAN CARACTERES EN EL DISPLAY VISUALIZACIÓN DE GRÁFICOS DEFECTUOSA FALLO DE CONMUTACIÓN MODO CARACTERES/GRÁFICAS FALLO DEL CURSOR/PROMPT COLOR ERRÓNEO EN EL DISPLAY NO HAY PAGINACIÓN/SCROLL OTRO PROBLEMA DE VISUALIZACIÓN DE DATOS	**740** 741 742 743 744 745 746 747 748 749 74A 74X	**DISPOSITIVO INDICADOR/TECLAS DE CONTACTO** NO FUNCIONA MOUSE/TRACKBALL/JOYSTICK TECLA BLOQUEADA DISPOSITIVO INDICADOR BLOQUEADO TECLA(S) PEGADA(S) TECLA(S) NO OPERATIVA(S) DISPOSITIVO INDICADOR NO SIGUE CORRECTAMENTE DISPOSITIVO INDICADOR VIBRA NO FUNCIONA CONMUTACIÓN DEL BOTÓN DERECHO O IZQUIERDO PISTA DE SEGUIMIENTO DETERIORADA TECLA(S) DE CONTACTO DETERIORADA(S) OTRO PROBLEMA DE TECLA/DISPOSITIVO INDICADOR
8	IMPRESIÓN/COPIADO/ESCANEADO	**810** 811 812 813 814 815 816 817 81X	**NO HAY OPERACIÓN DE IMPRESIÓN/COPIA/ESCANEO** NO HAY IMPRESIÓN NO HAY CONMUNICACIÓN CON LA IMPRESORA NO HAY CARGA DE PAPEL NO HAY ALIMENTACIÓN DE PAPEL NO QUEDA FIJADA LA IMAGEN NO HAY ALIMENTACIÓN DE DOCUMENTO NO TRABAJA EL ESCANER OTRO PROBLEMA DE 'NO HAY OPERACIÓN DE IMPRESIÓN/COPIA/ ESCANEO	**820** 821 822 823 824 825 826 827 828 829 82A 82B 82X	**FUNCIÓN ERRÓNEA DE IMPRESIÓN/COPIA/ESCANEO** IMAGEN INVERTIDA (NEGATIVO/POSITIVO) ALIMENTACIÓN ERRÓNEA DEL PAPEL CONMUTACIÓN DEL MODO DE IMPRESIÓN ERRÓNEO COPIA DEMASIADO OSCURA COPIA DEMASIADO CLARA COPIA NEGRA COPIA BLANCA NIVELES DE COLOR POBRES ALIMENTACIÓN IRREGULAR DE DOCUMENTO FALLA FUNCIÓN DE CORRECCIÓN POBRE CALIDAD DE EXPLORACIÓN OTRO PROBLEMA DE IMPRESIÓN/COPIA/ESCANEO	**830** 831 832 833 834 835 836 837 838 839 83A 83X	**MALA CALIDAD DE IMPRESIÓN** POSICIONAMIENTO ERRÓNEO DE LA IMPRESIÓN BAJO CONTRASTE DE LA IMPRESIÓN EXCESIVO CONTRASTE DE LA IMPRESIÓN IMPRESIÓN BORROSA IMPRESIÓN VAGA FALTAN PUNTOS EN LA IMPRESIÓN COLOR A RAYAS NO COLOUR IN PART OF PICTURESIN COLOR EN PARTE DE LA IMAGEN INCOMPLETA IMPRESIÓN IMAGEN/COPIA FALTA DE AJUSTE OTRO PROBLEMA DE MALA CALIDAD DE IMPRESIÓN	**840** 841 842 843 844 845 846 847 84X	**IMPRESIÓN RUIDOSA** LÍNEAS DE RUIDO IMPRESIÓN SUCIA OLOR DESAGRADABLE (OZONO) TIRAS EN DIRECCIÓN DE LA ALIMENTACIÓN/ LÍNEAS NEGRAS TIRAS EN DIRECCIÓN DE LA ALIMENTACIÓN/ LÍNEAS BLANCAS TIRAS ATRAVESADAS EN DIRECCIÓN DE ALIMENTACIÓN/LÍNEAS NEGRAS TIRAS ATRAVESADAS EN DIRECCIÓN DE ALIMENTACIÓN/LÍNEAS BLANCAS OTRO PROBLEMA DE IMPRESIÓN RUIDOSA

5	INESTABILIDAD	6	PROBLEMAS FÍSICOS Y DE GRABACIÓN	7	FUNCIÓN ESPECIAL	8	OTRAS CONDICIONES
150 151 152 153 154 15X	**PROBLEMA DEL MANDO A DISTANCIA** INACTIVO MANDO A DISTANCIA OPERACIÓN ERRÓNEA DEL MANDO A DISTANCIA PROBLEMA DE PROGRAMACIÓN/MEMORIZACIÓN FUNCIONES DEL MANDO A DISTANCIA SENSIBILIDAD DÉBIL DEL MANDO A DISTANCIA OTRO PROBLEMA DEL MANDO A DISTANCIA	**160** 161 162 163 164 165 166 167 168 169 16A 16B 16C 16D 16E 16F 16G 16H 16J 16K 16L 16M 16N 16P 16R 16X	**DAÑO FÍSICO** PANEL/MUEBLE DEFORMADO/DAÑADO ASA/PINZA DE TRANSPORTE DAÑADA DAÑO DE BOTÓN(ES)/BOTÓN(ES) DE CONTROL/TECLA DAÑO DE TAPA/CUBIERTA DAÑO DE PRECINTO CONECTOR/TERMINAL/ZÓCALO/ENCHUFE DAÑADO DAÑO DE OBJETIVO DAÑO DE CARTUCHO O AGUJA DAÑO DE ANTENA DAÑO DEL TUBO CATÓDICO/VISOR/INDICADOR LCD PIEZAS O MATERIAL PERDIDOS MARCA BORRADA CIRCUITERIA QUEMADA/SALE HUMO DAÑO EN SUPERFICIE EXTERNA (BURBUJEANTE/PELADO/CORROIDO/ARAÑADO) HUELE SOPORTE DÉBIL/DETERIORADO ALTAVOZ DETERIORADO APARATO MUY CALIENTE/COMPONENTE FUNDIDO SUSTANCIA EXTRAÑA DENTRO DEL APARATO MARCAS DE ARDER SUPERFICIE INTERIOR DAÑADA (BURBUJEANTE/PELADA/CORROIDA/ARAÑADA) CABLE DE RED DETERIORADO ACCESORIO DETERIORADO DESCOLORACIÓN OTRO PROBLEMA DE DAÑO FÍSICO	**170** 171 172 173 174 175 176 177 178 179 17A 17B 17C 17D 17E 17F 17G 17H 17J 17K 17L 17M 17N 17X	**PROBLEMA DE LA FUNCIÓN GENERAL** FALLO DE LA FUNCIÓN DE RELOJ FALLO DE LA FUNCIÓN DE ADOMECER FALLO DE LA PROGRAMACIÓN DEL TEMPORIZADOR FALLO DE LA GRABACIÓN POR TEMPORIZADOR PROBLEMA DE AJUSTA DEL USUARIO/PROGRAMACIÓN FALLO EN LA OPERACIÓN DE PAUSA FALLO EN LA OPERACIÓN DE LA REPRODUCCIÓN PROGRAMADA FALLO EN LA FUNCIÓN DE MEMORIA FALLO EN LA CONMUTACIÓN DE ENTRADA FALLO EN LA CONMUTACIÓN DE SALIDA DESCARGA ELÉCTRICA/DESCARGA ESTÁTICA ‘FALLO FUNCIÓN DE BÚSQUEDA (ÍNDICE/“VIEW”/TÍTULO/CAPÍTULO/PISTA ...)” LENGUAJE EQUIVOCADO/TIPO DE CARACTERES APARECE CÓDIGO DE ERROR EN EL INDICADOR INTERRUPTOR NO FUNCIONA PEDAL NO FUNCIONA ‘FALLO EN EL MODO “STANDBY” FALLO EN EL MODO DE BAJO CONSUMO SEÑAL DE PRECAUCIÓN NO AUDIBLE FALLO EN EL MODO DE BLOQUEO/FUNCIÓN KEYLOCK FALLO EN EL MODO DE CONMUTACIÓN PROBLEMA EN EL MENÚ DE FUNCIONES OTRO PROBLEMA DE LA FUNCIÓN GENERAL	**180** 181 182 183 184 185 186 187 188 189 18B 18X 18Z	**CONDICIÓN/ACCIÓN ESPECIAL** PRUEBA Y CONTROL REVISIÓN CONVERSIÓN DE FRECUENCIA/SISTEMA PUESTA EN MARCHA/INSTALACIÓN NECESARIA MODIFICACIÓN/CAMBIO DE CIRCUITO O DE INSTALACIÓN EQUIPAMIENTO INCORRECTO EN EL EMBALAJE ACCESORIO EXTRAVIADO IMPOSIBLE CONECTAR ELEMENTOS/ENSAMBLAR COLOR DEFECTUOSO PROBLEMA DE MONTAJE DE LA BATERÍA SÍNTOMA DESCONOCIDO SÍNTOMA NO OBTENIBLE
250 251 252 253 254 25X	**COMUNICACIÓN INESTABLE** DESVIACIÓN DE SINTONÍA DESVANECIMIENTO LÍNEA INTERMITENTE/LINEA SE CORTA ‘CONEXIÓN INESTABLE O NO HAY CONEXIÓN E INDICACIÓN “SEÑAL DÉBIL”’ OTRO PROBLEMA DE COMUNICACIÓN INESTABLE	**260** 261 262 263 264 26X	**PROBLEMA DE SINTONÍA** PROBLEMA DE SINTONÍA MANUAL PROBLEMA DE SINTONÍA AUTOMÁTICA SINTONÍA ERRÓNEA PROBLEMA DE MEMORIA DE SINTONÍA OTRO PROBLEMA DE SINTONÍA	**270** 271 272 273 274 275 276 277 278 279 27A 27B 27C 27X	**PROBLEMA DE LA COMUNICACIÓN ESPECIAL** FALLO EN LA COMPOSICIÓN DEL NÚMERO FALLO EN LA SELECCIÓN DEL CANAL ERROR DEL CONTESTADOR AUTOMÁTICO FALLO EN LA REPRODUCCIÓN DEL MENSAJE FALLO EN LA LLAMADA AUTOMÁTICA/FUNCIÓN DE RELLAMADA FALLO DEL PROCESADO DE LA CONVERSACIÓN NO HAY SEÑAL DE LLAMADA TONO DE LLAMADA RUIDOSO/DÉBIL MODEM SE CUELGA FAX NO FUNCIONA CORRECTAMENTE MODEM CREA PROBLEMAS CON EL TELÉFONO SIN TONO DE LLAMADA DEL MODEM OTRO PROBLEMA DE LA COMUNICACIÓN ESPECIAL	**280** 281 282 283 284 285 286 287 288 289 28A 28B 28C 28X	**PROBLEMA DE LA RECEPCIÓN ESPECIAL** FALLO EN LA RECEPCIÓN DE ESTEREO FALLO DEL CANAL PRINCIPAL (A) FALLO DEL CANAL SECUNDARIO (B)/DUAL FALLO EN LA RECEPCIÓN SSB FALLO EN LA OPERACIÓN RDS/VPS/PDCXDS FALLO EN LA RECEPCIÓN TELETEXTO/ SINTONIA FINA/EPG FALLO EN LA RECEPCIÓN SATÉLITE/RTTY FALLO EN LA OPERACIÓN FAX MODEM NO ES RECONOCIDO POR EL SISTEMA FALLO EN INDICADOR DE CARGA DE LLAMADA FALLO FUNCIONAMIENTO MANOS LIBRES APARATO BLOQUEADO OTRO PROBLEMA DE LA RECEPCIÓN ESPECIAL
350 351 352 353 354 355 356 357 358 359 35A 35B 35X	**IMAGEN INESTABLE** PROBLEMA DE SINCRONIZACIÓN BOMBEO DE LA IMAGEN INESTABILIDAD/JITTER DE LA IMAGEN SACUDIDA DE LA IMAGEN (HORIZONTAL O VERTICAL) PARPADEO DE LA IMAGEN CENTELLEO DE LA IMAGEN ATENUACIÓN CÍCLICA DE LA IMAGEN INESTABILIDAD EN LA IMAGEN EN ARRANQUE DISTORSIÓN VCR/ERROR DESPLAZAMIENTO-H IMAGEN PARADA SALTO/REPETICIÓN DE IMAGEN OTRO PROBLEMA DE IMAGEN INESTABLE	**360** 361 362 363 364 365 366 367 36X	**MALA GRABACIÓN DE IMAGEN** NO HAY GRABACIÓN DE IMAGEN NO HAY PROTECCIÓN CONTRA BORRADO DE VIDEO NO HAY BORRADO DE LA GRABACIÓN DE VIDEO ANTERIOR BORRADO ACCIDENTAL DE LA IMAGEN NO HAY GRABACIÓN DE CÁMARA GRABACIÓN DE UN SOLO CAMPO GRABA SÓLO UNAS POCAS IMÁGENES OTRO PROBLEMA DE MALA GRABACIÓN DE IMAGEN	**370** 371 372 373 374 375 376 377 378 379 37A 37B 37C 37D 37E 37F 37G 37H 37J 37K 37X	**MALA FUNCIÓN ESPECIAL DE IMAGEN** PROBLEMA DE EDICIÓN FALLO DE DESVANECIMIENTO/MEZCLA FALLO DE CONMUTACIÓN NEGATIVA/POSITIVA FALLO DE SOBREIMPOSICIÓN/EFECTOS FALLO DE LA IMAGEN DIGITAL/P-IN-P FALLO EN LA TRANSMISIÓN DE IMAGEN FALLO EN LA FUNCIÓN DE OBTURADOR FALLO EN LA FUNCIÓN DE GENLOCK FALLO EN LA FUNCIÓN DE PARPADEO/STROBOSCOPIO FALLO EN IMAGEN DIGITAL/FUNCIÓN DE ZOOM FALLO EN LA FUNCIÓN DE EDICIÓN AUTOMÁTICA FALLO EN LA FUNCIÓN DEL ESTABILIZADOR DE IMAGEN FALLO EN LA FUNCIÓN DE CAPTACIÓN DE IMAGEN FALLO EN LA FUNCIÓN DE SUBTITULADO FALLO EN LA REPRODUCCIÓN A BAJA VELOCIDAD FALLO EN CONMUTACIÓN VIEW/MULTI-ANGLE FALLO EN CONMUTACIÓN RATIO DE ASPECTO PROBLEMA EN EL ÍNDICE DE PANTALLA O EN EL SEÑALADOR SIN BORRADO DE PANTALLA OTRO PROBLEMA DE MALA FUNCIÓN ESPECIAL DE IMAGEN	**380** 381 382 383 384 385 386 387 388 38X	**PROBLEMA DE VISUALIZACIÓN/TUBO DE IMAGEN** QUEMADO EN VISUALIZACIÓN/TUBO DE IMAGEN RASGUÑO EN VISUALIZACIÓN/TUBO DE IMAGEN POLVO EN VISUALIZACIÓN/TUBO DE IMAGEN FALTA PUNTO FOSFORESCENTE/PIXEL EN VISUALIZACIÓN/TUBO DE IMAGEN PUNTO(S) BRILLANTE(S) EN FÓSFORO/PIXEL LÍNEAS TRANSVERSALES DEFECTOS DE PIXELS FUERA DE ESPECIFICACIONES FONDO BORROSO OTRO PROBLEMA DE VISUALIZACIÓN/TUBO DE IMAGEN
450 451 452 453 454 45X	**COLOR INESTABLE** CENTELLEO DE COLOR CAMBIO DE MATIZ CONSTANTE PARPADEO DE COLOR NO HAY ENGANCHE DE COLOR OTRO PROBLEMA DE COLOR INESTABLE	**460** 461 462 46X	**MALA GRABACIÓN DE COLOR** NO HAY GRABACIÓN DE COLOR/GRABACIÓN SIN COLOR GRABACIÓN DE COLOR CON RUIDO OTRO PROBLEMA DE MALA GRABACIÓN DE COLOR	**470** 471 472 47X	**MALA FUNCIÓN ESPECIAL DE COLOR** FALLO EN EL BALANCE AUTOMÁTICO DEL BLANCO FALLO EN LOS EFECTOS DE COLOR OTRO PROBLEMA DE MALA FUNCIÓN ESPECIAL DE COLOR	**480**	
550 551 552 553 554 555 556 557 55X	**SONIDO INESTABLE** SALTO O REPETICIÓN DEL SONIDO BOMBEO O FLUCTUACIÓN DEL SONIDO INTERRUPCIÓN DEL SONIDO MUTING CÍCLICO DEL SONIDO LLORO Y ULULEO REALIMENTACIÓN ACÚSTICA ECO EN SONIDO OTRO PROBLEMA DE SONIDO INESTABLE	**560** 561 562 563 564 565 566 56X	**MALA GRABACIÓN DEL SONIDO** NO HAY GRABACIÓN DEL SONIDO NO HAY PREVENCIÓN CONTRA BORRADO DEL SONIDO NO HAY BORRADO DE LA GRABACIÓN DE AUDIO ANTERIOR BORRADO ACCIDENTAL DEL SONIDO NO HAY GRABACIÓN DEL MENSAJE GRABACIÓN DE SONIDO DISTORSIONADA OTRO PROBLEMA DE MALA GRABACIÓN DEL SONIDO	**570** 571 572 573 574 575 576 577 578 579 57A 57B 57C 57X	**MALA FUNCIÓN ESPECIAL DE AUDIO** FALLO EN LA OPERACIÓN DE DESVANECIMIENTO FALLO EN LA OPERACIÓN DE ECO FALLO EN LA OPERACIÓN DE MEZCLA FALLO EN LA OPERACIÓN DE MODO DE REPETICIÓN FALLO EN LA OPERACIÓN DE PROCESADO DEL SONIDO FALLO EN LA OPERACIÓN DE GRABACIÓN SINCRONIZADA FALLO EN LA OPERACIÓN DE DBB/DOL FALLO EN LA OPERACIÓN DE LA REDUCCIÓN DEL RUIDO FALLO EN LA FUNCIÓN DE DOBLAJE DE SONIDO FALLO EN EL TÍTULO DEL PROGRAMA FALLO EN CONTROL DEL MICRÓFONO FALLO EN CONTROL DE VELOCIDAD OTRO PROBLEMA DE MALA FUNCIÓN ESPECIAL DE AUDIO	**580** 581 582 583 584 585 58X	**PROBLEMA DE LA OPERACIÓN ESTEREO/MULTI** NO HAY ESTEREO MALA SEPARACIÓN DE CANALES DIFERENCIA DE FASE ENTRE CANALES PROBLEMA CON EL MODO SURROUND PROBLEMA CON EL MODO PCM OTRO PROBLEMA DE LA OPERACIÓN ESTEREO/MULTI
650 651 652 653 654 655 65X	**INESTABILIDAD MECÁNICA** PIES DESIGUALES BISAGRA DEFECTUOSA VIBRA/SALTA PARTES FLOJAS VOLANTE(S) DETERIORADO(S) OTRO PROBLEMA DE INESTABILIDAD MECÁNICA	**660** 661 662 663 664 665 666 667 66X	**DAÑO AL SISTEMA** CINTA DAÑADA DISCO DAÑADO CINTA DEVORADA/ARRUGADA CINTA ENREDADA/CORTADA CINTA RIZADA CINTA FLOJA CINTA ADHERIDA/PEGADA OTRO PROBLEMA DE DAÑO DEL SOFTWARE	**670** 671 672 673 674 675 676 677 678 679 67A 67B 67C 67D 67X	**PROBLEMA DE LA OPERACIÓN MECÁNICA** FALLO DE LA OPERACIÓN DE ARRANQUE/PARADA FALLO DE LA OPERACIÓN DE PAUSA FALLO EN LA BÚSQUEDA AUTOMÁTICA DEL PROGRAMA FALLO DEL MODO CUE/REVIEW FALLO DE LA OPERACIÓN DE MOVIMIENTO LENTO FALLO DEL MODO DE EXPLORACIÓN RÁPIDA FALLO DEL A FUNCIÓN DE COPIADO A ALTA VELOCIDAD FALLO DE LA OPERACIÓN DE MODO REPETICIÓN FALLO DEL MODO REC REVIEW FALLO FUNCIÓN AMS MAL FUNCIONAMIENTO DEL AUTO-REVERSE FALLO EN LA DETECCIÓN DEL FIN DE CINTA FALLO EN LA CONMUTACIÓN DE LA CARA DEL DISCO (SELECCIÓNA A-B) OTRO PROBLEMA DE LA OPERACIÓN MECÁNICA	**680** 681 682 683 684 68X	**PROBLEMA DE OBJETIVO** PROBLEMA DE ENFOQUE PROBLEMA DE ZOOM PROBLEMA DE IRIS PROBLEMA DE MACRO OTRO PROBLEMA DE OBJETIVO
750 751 752 753 754 755 756 75X	**PROBLEMA PERIFÉRICO (NO ALMACENAJE)** PERIFÉRICO NO ARRANCA FALLO DE LA COMUNICACIÓN CON EL PERIFÉRICO FALLO PERIFÉRICOS INTERNOS FALLO PERIFÉRICOS EXTERNOS ERROR TARJETA DE RED FALLO EN AUTO PRUEBA EL PERIFÉRICO OTRO PROBLEMA PERIFÉRICO	**760** 761 762 763 764 765 766 767 768 769 76A 76B 76X	**PROBLEMA DE ALMACENAJE DE DATOS** PROBLEMA DE FORMATEADO PÉRDIDA DE DATOS ALMACENADOS FALLO EN LA MEMORIA DE CUADRO ERRORES DE LECTURA/ESCRITURA PROBLEMA DE DISPOSITIVO ÓPTICO O HARD ‘PROBLEMA DE CONTROL DEL “FLOPPY”’ PROBLEMA DE CONTROL CD/DVD-ROM PROBLEMA DE CINTA NO SE MONTARÁ LA EXCITACIÓN/NO SE PUEDE ACCEDER A LA EXCITACIÓN PROBLEMA DE INTERCAMBIO DE DISCOS FUNCIONAMIENTO LECTURA/ESCRITURA MUY LENTO OTRO PROBLEMA DE LECTURA/ESCRITURA DE DATOS	**770** 771 772 773 774 775 776 777 77X	**MAL PROCESADO ESPECIAL DE DATOS** FALLO DE AUTO-DIAGNÓSTICO FALLO DE PROCESADO DE TEXTO FALLO DE EDICIÓN GRÁFICA EL PROGRAMA NO PUEDE INSTALARSE NO PUEDE ARRANCARSE EL PROGRAMA PRECARGADO NO PUEDE ARRANCARSE NINGÚN PROGRAMA PRECARGADO ALARMA DE VIRUS OTRO PROBLEMA DE MAL PROCESADO ESPECIAL DE DATOS	**780** 781 782 783 784 785 786 787 78X	**PROBLEMA DE INTERFACE** PROBLEMA DE INTERFACE USB PROBLEMA DE INTERFACE PARALELO PROBLEMA DE INTERFACE SCSI PROBLEMA DE INTERFACE SERIE INCOMPATIBLE CON OTROS SISTEMAS PROBLEMA DE INTERFACE AUDIO/VÍDEO PROBLEMA INTERFACE i.LINK/FIREWIRE/IEEE1394 OTRO PROBLEMA DE INTERFACE
850 851 852 853 85X	**FUNCIÓN INESTABLE EN LA IMPRESIÓN** CARGA INESTABLE DEL PAPEL CARGA INESTABLE DE PAPEL MÚLTIPLE MALA ALINEACIÓN DE CARACTERES OTRO PROBLEMA DE FUNCIÓN INESTABLE EN LA IMPRESIÓN	**860** 861 862 863 864 865 866 867 86X	**PROBLEMA DE CINTA/PAPEL** CINTA CORTADA ATASCO DE CINTA CINTA DESCARRILADA PAPEL ADHERIDO AL MECANISMO PAPEL BLOQUEADO SALTOS DE DOCUMENTO MENSAJES DE ERRORES FALTA DE TINTA/TONER OTRO PROBLEMA DE CINTA/PAPEL	**870**		**880** 881 882 883 88X	**MALA FUNCIÓN DE PÓLIZAS/CARACTERES** CARACTERES O IMAGEN INCORRECTOS TAMAÑO ERRÓNEO DE CARACTERES MALA CARGA DE LAS PÓLIZAS DE CARACTERES OTRO PROBLEMA DE MALA FUNCIÓN DE PÓLIZAS/CARACTERES

(*1)

CUIDADO

‘LOS CÓDIGOS EXTENDIDOS “X” (*-**X) PUEDEN SOLAMENTE UTILIZARSE PARA INDICAR QUE UNA DESCRIPCIÓN APROPIADA DEL SÍNTOMA FALTA EN EL GRUPO’

MERCANCÍA PARDA
REV 03 - 2000/02

EACEM - CÓDIGOS DE SECCIÓN

COMÚN	
ANT	SECCIÓN DE LA ANTENA
APR	PROCESADO DE SEÑALES (ANALÓGICO)
BCH	CARGA DE BATERÍA
CLK	SECCIÓN DE RELOJ
CPA	PROCESADO DE COLOR ANALÓGICO
CTR	PANEL DE CONTROL
DPR	PROCESADO DE SEÑALES (DIGITAL)
ERA	CIRCUITO DE BORRADO
FLX	PLACA FLEXIBLE
HFS	SECCIÓN DE ALTA FRECUENCIA
IDS	SECCIÓN DEL DISPLAY DE INFORMACIÓN
IFC	CIRCUITO FI
ILN	SECCIÓN i.LINK (IEEE1394)
INP	SECCIÓN DE ENTRADA DE SEÑALES
IRD	SECCIÓN INFRA-ROJOS (IRDA)
MEM	SECCIÓN DE MEMORIA
OUT	SECCIÓN DE SALIDA DE SEÑALES
PRG	SECCIÓN DE PROGRAMACIÓN
PRT	CIRCUITO DE PROTECCIÓN
PSU	ALIMENTACIÓN
PWA	SECCIÓN DEL AMP DE POTENCIA
REM	SECCIÓN DEL CONTROL REMOTO
RFU	AMPLIFICADOR/UNIDAD RF
SFT	SOFTWARE (CINTA/DISCO/ETC.)
SNS	UNIDAD DE DETECCIÓN
SVO	SECCIÓN DE SERVO
SYS	SECCIÓN DEL SISTEMA DE CONTROL
TUN	SECCIÓN DE SINTONIZACIÓN
TXT	PROCESADO DE TEXTOS

SONIDO	
APA	PROCESADO DE AUDIO ANALÓGICO
APD	PROCESADO DE AUDIO DIGITAL
CDC	SECCIÓN CAMBIADOR CD
CDS	SECCIÓN CD
MDC	SECCIÓN CAMBIADOR MD
MDS	SECCIÓN MINIDISC
MIC	SECCIÓN DE MICRÓFONO
PUD	DISPOSITIVO CAPTADOR
SHD	CABEZAS FIJAS
SPK	ALTAVOZ

IMAGEN	
CAM	CIRCUITO CÁMARA
CPD	PROCESADO DE COLOR DIGITAL
CRT	TUBO DE IMAGEN
DFL	CIRCUITO DE DEFLEXIÓN
DVD	SECCIÓN DVD
FPK	CONJUNTO DE ENFOQUE
IMG	UNIDAD DE VISUALIZACIÓN DE IMÁGENES

IMAGEN	
LCD	SECCIÓN LCD
LMP	SECCIÓN FLASH/LÁMPARA
VPA	PROCESADO DE VIDEO ANALÓGICO
VPD	PROCESADO DE VIDEO DIGITAL
VWF	VISOR

PC	
FDD	EXCITADOR DEL FLOPPY DISC
FMW	PROGRAMACIÓN FIJA
HDD	EXCITADOR DEL DISCO DURO
ISA	SECCIÓN ISA
JST	JOYSTICK
KBD	TECLADO
MDM	SECCIÓN MODEM
NIF	RED DE INTERCONEXIÓN
PAR	PUERTA PARALELO
PCC	TARJETA PC
PCI	SECCIÓN PCI
SCS	PUERTA SCSI
SER	PUERTA SERIE
USB	PUERTA USB

MECÁNICO	
ARM	MECANISMO DEL BRAZO
BZL	BEZEL (MUEBLE FRONTAL)
CBT	MUEBLE
CHA	CHASIS
DDM	SECCIÓN DE ACCIONAMIENTO DEL DISCO
EXC	CONECTOR EXTERNO
HCM	MECANISMO DE SOPORTE DE LA CABEZA
HOL	SOPORTE DE CASSETTE
INC	CONECTOR INTERNO
LDG	MECANISMO DE CARGA
LNM	MECANISMO DE LENTE
PFM	MECANISMO DE ALIMENTACIÓN DEL PAPEL
PIN	RODILLO/PALANCA DE APRIETE
PRI	BLOQUE DE IMPRESOR
RFM	MECANISMO DE ALIMENTACIÓN DE LA CINTA
RHD	CABEZAS ROTATIVAS
SLD	MECANISMO DE SEGUIMIENTO
SRS	SECCIÓN DEL CARRETE DE SUMINISTRO
STA	BLOQUE ESTÁTICO
TDM	MECANISMO DE ACCIONAMIENTO DE LA CINTA
THR	MECANISMO DE ENHEBRADO
TNR	REGULADOR DE LA TENSIÓN DE LA CINTA
TPT	CAMINO DE LA CINTA
TRS	SECCIÓN DEL CARRETE DE RECOGIDA
WIR	CABLE
XXX	PIEZAS ESTÉTICAS

EJEMPLO:

BANDEROLA	CÓDIGO DE SÍNTOMA	CÓDIGO DE REPUESTO	NÚMERO DE REFERENCIA	SECCIÓN	PLACA	CÓDIGO DE DEFECTO	CÓDIGO DE REPARACIÓN	CANTIDAD
1 .	1 4 1 2 3 6 4 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 3 4 5 6 7 8 9 X X X X X X X X X	R 1 2 3 . . . . 1 1 1	T D M	Y A 2 2 . . .	C 1	Z 1	. . . .

BANDEROLA: INDICA LA ÚNICA Y PRINCIPAL COMBINACIÓN SÍNTOMA/COMPONENTE POR '1'

CÓDIGOS DE LOS DEFECTOS

MECÁNICO	
A	GASTADO (O DEFECTO MECÁNICO EN GENERAL)
A1	ERROR DE FUNCIONAMIENTO
B	ENSUCIADO/MANCHADO
C	DESAJUSATADO MECÁNICAMENTE
D	CORTADO/DEFECTUOSO
E	DESFORMADO
F	ENGANCHADO/BLOQUEADO
G	RAYADO/ABOLLADO/BORDES CORTANTES
H	HENDIDURA/PELADO/CORROIDO/FUNDIDO
I	SEPARADO/SUELTO/RAYADO
J	INESTABILIDAD
K	PÉRDIDA (MECÁNICA)
L	SECO (SIN LUBRIFICANTE)
M	CUERPO EXTRAÑO

ELÉCTRICO	
N	COMPONENTE ELÉCTRICO/MÓDULO DEFECTUOSO
O	QUEMADO/FORMACIÓN DE ARCO/PIXELS QUE FALTAN
P	MAL AJUSTADO ELÉCTRICAMENTE/MAL AJUSTADO
Q	CORTOCIRCUITO
R	CIRCUITO ABIERTO
S	FUGA (ELÉCTRICA)
T	MAL CONTACTO/SOLDADURA
T1	MALA CONEXIÓN A TIERRA
U	CIRCUITO ABIERTO
V	PLACA HENDIDA
W	SOLDADURA SECA O QUE FALTA
X	SOLDADURA EN PUENTE
Y	MÓDULO/COMPONENTE EQUIVOCADO
Z	MÓDULO/COMPONENTE PERDIDO
1	PROBLEMA DE SOFTWARE
11	PÉRDIDA DE DATO DESDE LA MEMORIA
12	FALLO EN AJUSTE/INSTALACIÓN DE PROGRAMA
13	SOFTWARE DEFECTUOSO O INCOMPLETO
14	PROBLEMA DE AJUSTE DEL SOFTWARE
15	NO IDENTIFICA/VERIFICA EL PRODUCTO O EL USUARIO
2	AGOTADO/EMISIÓN DEBIL
3	NO SE ENCUENTRA PROBLEMA (APARATO DENTRO DE ESPEC.)
4	NO SE ENCUENTRA PROBLEMA - EQUIVOCACIÓN DEL USUARIO
5	NO SE ENCUENTRA PROBLEMA - CONDICIONES LOCALES
51	FALLO EN LA TENSIÓN PRINCIPAL
6	IMPOSIBLE DIAGNOTICAR FALLO
7	INCORRECTAMENTE CABLEADO/MONTADO
81	CONEXIÓN INCORRECTA DEL EQUIPO
9	MAL USO POR EL USUARIO
93	MODIFICACIÓN NO AUTORIZADA

CÓDIGOS DE REPARACIÓN

A	SUBSTITUCIÓN
B	AJUSTE MECÁNICO
C	AJUSTE ELÉCTRICO
D	RESOLDADURA
D1	REPARACIÓN/RECOLOCAR EN SU SITIO (CONECTOR/TUBO/...)
E	LIMPIEZA
F	ENGRASE
G	COMPONENTES ELÉCTRICOS REPARADOS
H	COMPONENTES MECÁNICOS REPARADOS
I	MODIFICACIÓN SOLICITADA POR EL FABRICANTE
J	DESMONTADO
K	AÑADIDO
L	COMPROBACIÓN FUNCIONAL
M	MEDICIÓN DE ESPECIFICACIÓN
N	MANTENIMIENTO
O	REPULIR
P	SUBSTITUCIÓN PREVENTIVA DE COMPONENTES

Q	ACCIÓN PREVENTIVA SIN SUBSTITUCIÓN DE COMPONENTES
U	EXPLICACIÓN AÑADIDA
V	PRESUPUESTO RECHAZADO
W	PRESUPUESTO CON COMPONENTES
X	PRESUPUESTO SIN COMPONENTES
Y	VUELTO AL CLIENTE SIN REPARACIÓN
Z	CAMBIO DEL APARATO
Z1	CAMBIO DE PRODUCTO (REPARACIÓN MUY CARA)
Z2	CAMBIO DE PRODUCTO (MUCHAS VISITAS/REPARACIONES)
Z3	CAMBIO DE PRODUCTO (REPUESTO NO OBTENIBLE)
Z4	CAMBIO DE PRODUCTO (IMPOSIBLE DE REPARAR)
Z5	CAMBIO DE PRODUCTO (SOLICITADO AL DETALLISTA)
Z6	CAMBIO DE PRODUCTO (SOLICITADO POR EL FABRICANTE)
1	CORRECCIÓN DEL SOFTWARE/REAJUSTE
2	ACTUALIZACIÓN DEL SOFTWARE
3	PRODUCTO ACTUALIZADO (SOBRE PEDIDO)

TECHNICAL INFORMATION

Chassis concerned : ICC17 (25"MP & 28"MP)

Symptom/ Problem observed :
Spare Parts List, component part number amendment.

Solution implemented :
To optimize the CRT heater supply voltage for the above mentioned tubes, both LL05(DST) and LB02 (coil) have been changed.

LL05 : Old Part No. 10546610 ---> **New Part No. 10600190**
LB02 : Old Part No. 10477930 ---> **New Part No. 25349470**

Comment :
Both components must be replaced at the same time.

TECHNICAL INFORMATION

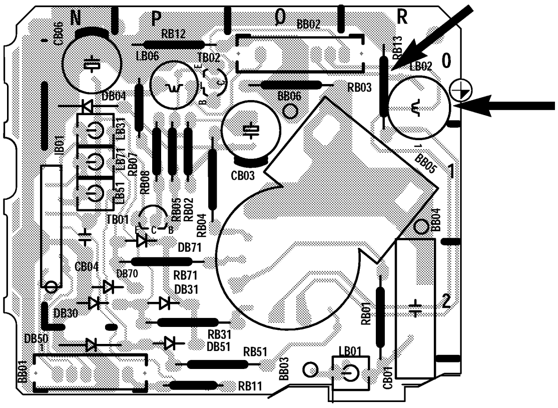
Finished products / Chassis concerned :
All TV sets equiped with ICC17 chassis (CRT Board)

Subject : Protection of transistor TB02 against arcing

Symptom/ Problem observed :
Transistor type number BF422 used in position TB02 found defective.

Cause :
Arcing.

Solution implemented :
- Remove the resistor at location RB13.
- On the copper side of the CRT PCB, add an insulated wire link between pin 1 of inductor LB02 and pin 4 of the CRT socket (ground).


N
P
Q
R
CB06
RB12
BB02
LB06
TB02
E
C
B
RB13
LB02
0
RB03
BB06
DB04
LB31
LB71
RB07
IB01
LB51
RB08
RB05
RB02
RB04
CB03
BB05
1
TB01
E
C
B
DB71
BB04
CB04
DB70
RB71
DB31
2
DB30
RB01
DB50
RB31
DB51
RB51
LB01
BB01
BB03
RB11
CB01

IRIS CODE: the code mentioned below must be used to report this failure on the warranty sheet. It will make your report easier and more reliable

Condition/ Symptom	Part No	Qty	Position	Section	Fault Code	Repair Code
1 3 1 5			R B 1 3	V P A	Y	T

You do not need to write anything in the white boxes. ☐

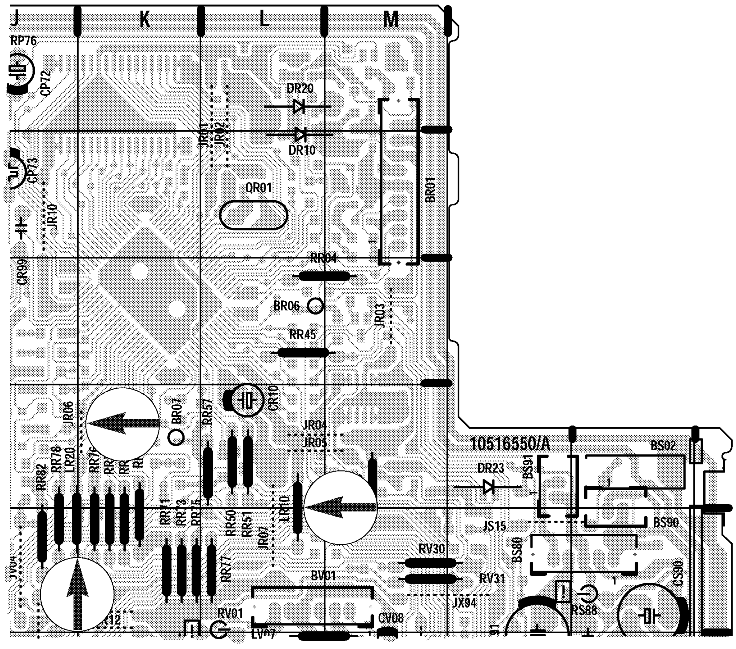
TECHNICAL INFORMATION

Chassis concerned : ICC17

Symptom/ Problem observed :
Moiré patterning visible on some channels.

Cause :
High frequency cross modulation.

Solution implemented
- Remove the jumper link at location JR06.
- Remove the inductor at location LR20.
- Replace LR10 10µH inductor with a jumper link.



J
K
L
M
RP76
CP72
DR20
DR10
JR01
JR02
CP73
JR10
QR01
BR01
CR99
RR04
BR06
JR03
RR45
JR06
BR07
RR57
CR10
JR04
JR03
10516550/A
BS02
DR23
BS91
RR82
RR78
LR20
RR11
RR13
RR15
RR50
RR51
JR07
LR10
RR77
JS15
BS90
BS80
RV30
RV31
BV01
JX94
RS88
CS90
RV01
CV08

TECHNICAL INFORMATION

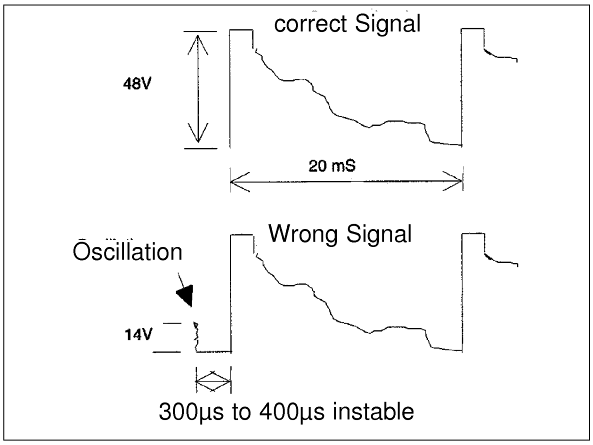
Chassis concerned : ICC17

Problem observed :
Different symptoms can be observed
- TV stuck in the Standby Mode with the safety mode active (code 27).
- Unstable OSD graphics.
- Sporadic or intermittent vertical scan.

Cause :
Parasitic oscillation at pin 7 of IF01 (see attached)

Solution implemented :
The problem is still under investigation to identify the basic cause of the problem, but to initially over come the problem we recommend changing the following components:
- Change RF08 from 4.7Ω or 27Ω to 68Ω5% 0.700w Part No. 15009050.
- Change CF08 from 100nF to 220nF 20% 63V Part No. 43302770.

If problem is still not resolved after changing the above mentioned resistors the replace IF01.



IRIS CODE: the code mentioned below must be used to report this failure on the warranty sheet. It will make your report easier and more reliable

Condition/ Symptom	Part No	Qty	Position	Section	Fault Code	Repair Code
1 1 1 9	1 5 0 0 9 0 5 0	0 1	☐ R F 0 8	D F L	☐ Y	☐ A
☐ ☐ ☐ ☐	4 3 3 0 2 7 7 0	0 1	☐ C F 0 8	D F L	☐ Y	☐ A

You do not need to write anything in the white boxes. ☐

TECHNICAL INFORMATION

Chassis concerned : ICC17 (with PCB index 02)

Problem observed :
The TV will not come out the Standby Mode.

Cause :
When starting, the base drive current to TP50 is too low.

Solution implemented :
Change the diode in position DP39 (LL4148) to a resistor strap Part No. 41047950.

IRIS CODE: the code mentioned below must be used to report this failure on the warranty sheet. It will make your report easier and more reliable

Condition/ Symptom	Part No	Qty	Position	Section	Fault Code	Repair Code
1119	41047950	01	☐DP39	PSU	☐Y	☐A

You do not need to write anything in the white boxes. ☐

TECHNICAL INFORMATION

Chassis concerned : ICC17

Problem observed :
At switch "ON", the TV's standby power supply does not work.

Cause :
The reverse voltage of the diodes used in positions DP16/17/18/19 (1N4001) is too low especially when the mains voltage is at highest.

Solution implemented :
Change the diodes used in positions DP16/17/18/19 with higher reverse breakdown voltage (400V) type number 1N4004, Part No. 44009009.

IRIS CODE: the code mentioned below must be used to report this failure on the warranty sheet. It will make your report easier and more reliable

Condition/ Symptom	Part No	Qty	Position	Section	Fault Code	Repair Code
1119	44009009	01	DP16	PSU	Y	A
	44009009	01	DP17	PSU	Y	A
	44009009	01	DP18	PSU	Y	A
	44009009	01	DP19	PSU	Y	A

You do not need to write anything in the white boxes. ☐

TECHNICAL INFORMATION

Chassis concerned : ICC17 (with PCB index 02)

Problem observed : .
East/West correction circuit failure.

Cause :
The transistor used in position TL41 (BD241C) is damaged due to CRT flashover.

Solution implemented :
After replacement TL41, add a RGP10G protection diode in position DL41 in parallel with TL41 (cathode to the collector of TL41 and the anode to ground), Part No. 10459090.

IRIS CODE: the code mentioned below must be used to report this failure on the warranty sheet. It will make your report easier and more reliable

Condition/ Symptom	Part No	Qty	Position	Section	Fault Code	Repair Code
3 3 3 5	1 0 4 5 9 0 9 0	0 1	☐ D L 4 1	D F L	☐ Z	☐ K

You do not need to write anything in the white boxes. ☐

TECHNICAL INFORMATION

Chassis concerned : ICC17

Subject : Improvement of the reception with internal antenna

Problem observed :
Moiré patterning, mainly visible on VHF channels.

Cause:
Inference being caused by the switch mode power supplies when using a set top aerial.

Solution implemented :
Change the value of capacitor CP49 from 1.5nF into 3.3nF 20% 1.6KV code 10607950.

Please change the following components in order to change the frequency of operation of the power as follows :

- Capacitor CP16/CP17 from 220nF to a 470nF 20% 275V Part No. 10596570.
- Capacitor CP41 from 10nF 63V to a 10nF 10% 100V Part No. 70427750.
- Resistor RP53 from 5.6kΩ to a 5.1kΩ 5% 0.100W Part No. 30611700.
- Resistor RP56 from 10kΩ to a 2.2kΩ 5% 0.100W Part No. 40077900.

IRIS CODE: the code mentioned below must be used to report this failure on the warranty sheet. It will make your report easier and more reliable

Condition/ Symptom	Part No	Qty	Position	Section	Fault Code	Repair Code
1224	10607950	01	CP49	PSU	Y	A
	10596570	01	CP16	PSU	Y	A
	10596570	01	CP17	PSU	Y	A
	70427750	01	CP41	PSU	Y	A
	30611700	01	RP53	PSU	Y	A
	40077900	01	RP56	PSU	Y	A

You do not need to write anything in the white boxes. ☐

TECHNICAL INFORMATION

Chassis concerned : ICC17

Problem observed :
Visible flash over after quickly switch Off and On again.

Solution implemented :
Change the value of capacitor CI57 from 2.2µF to a 1µF 20% 100V, Part No. 256728.

IRIS CODE: the code mentioned below must be used to report this failure on the warranty sheet. It will make your report easier and more reliable

Condition/ Symptom	Part No	Qty	Position	Section	Fault Code	Repair Code
1 3 2 1	☐ ☐ 2 5 6 7 2 8	0 1	☐ C I 5 7	A P R	☐ Y	☐ A

You do not need to write anything in the white boxes. ☐

GENERAL INFORMATION

METHODOLOGY

1 - ON POWER-UP :

- Observe the behaviour of the two-coloured LED: note the various stages and compare them to the normal cycle.
By doing this, the time at which the problem arose and the part of the circuit which needs to be investigated can be identified.

2 -TROUBLE SHOOTING PROCEDURE: LED BEHAVIOUR

In certain cases the LED will flash when transmitting a message:

LED flashing : message being transmited.

Count the flashes : code is two bursts separated by a pause of 0.7 s and repeated several times.

See the error code table. → **LIST OF LED MESSAGE ERROR CODES**

This data is more precise than colour changes but still incomplete, since various causes may generate the same code.

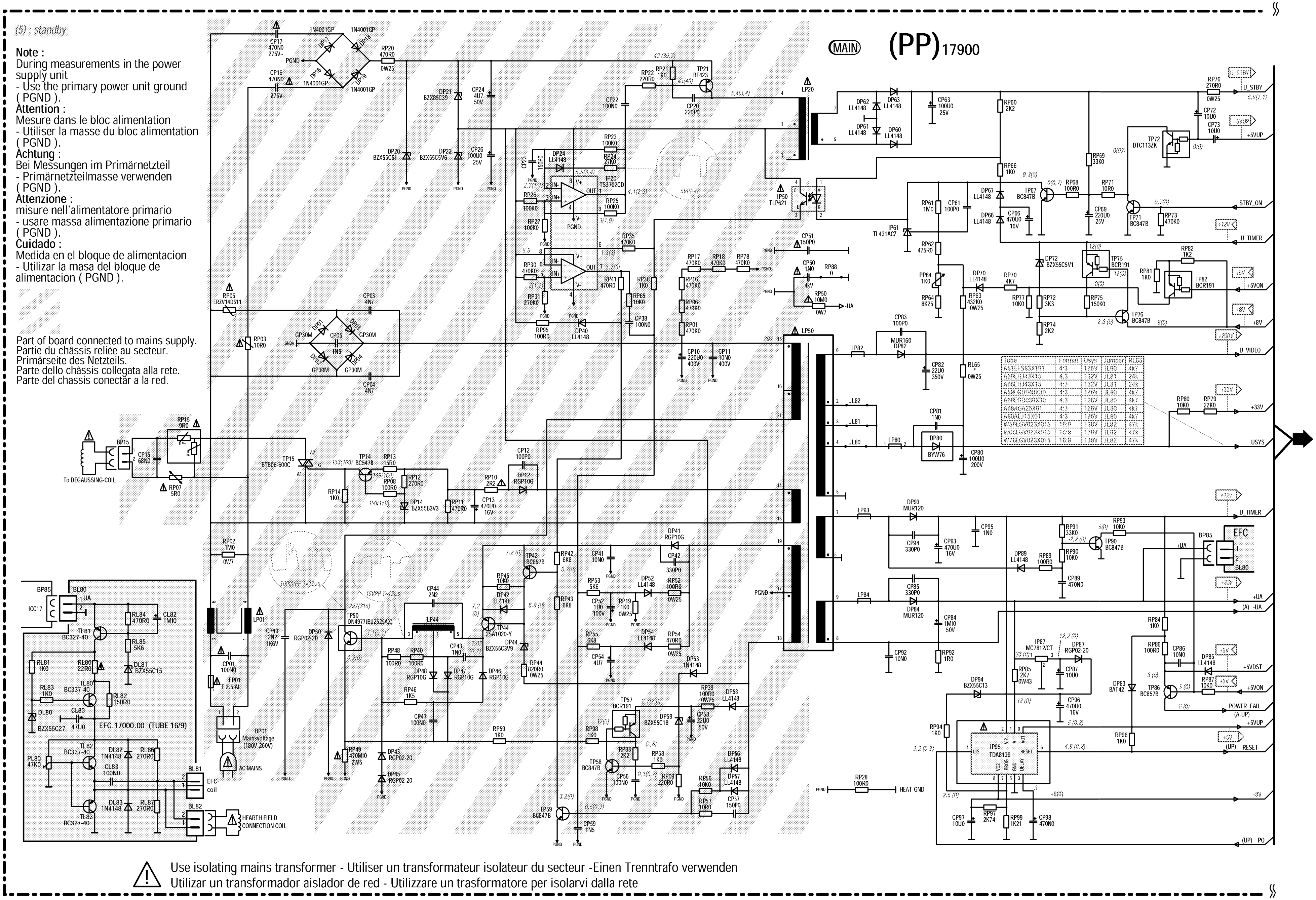
3 - FAULT FINDING :

Carryout of stages 1 and 2: an oscilloscope test may clarify the code transmitted in stage two.

a - The television set operates fully or partially
- Use LED message observation fault finding methods 1 and 2. See also the faults listed relating to fault finding by symptom.

b - The television goes into permanent or cyclical security mode
- Observe LED's behaviour (flashing red, stable orange followed by flashing, etc.).
Select the relevant box in the column (LED behaviour fault finding).

POWER SUPPLY - ALIMENTATION - NETZTEIL - ALIMENTAZIONE - ALIMENTACIÓN



Note :
During measurements in the power supply unit
- Use the primary power unit ground (PGND).

Attention :
Mesure dans le bloc alimentation
- Utiliser la masse du bloc alimentation (PGND).

Achtung :
Bei Messungen im Primärnetzteil
- Primärnetzteilmasse verwenden (PGND).

Attenzione :
misure nell'alimentatore primario
- usare massa alimentazione primario (PGND).

Cuidado :
Medida en el bloque de alimentacion
- Utilizar la masa del bloque de alimentacion (PGND).

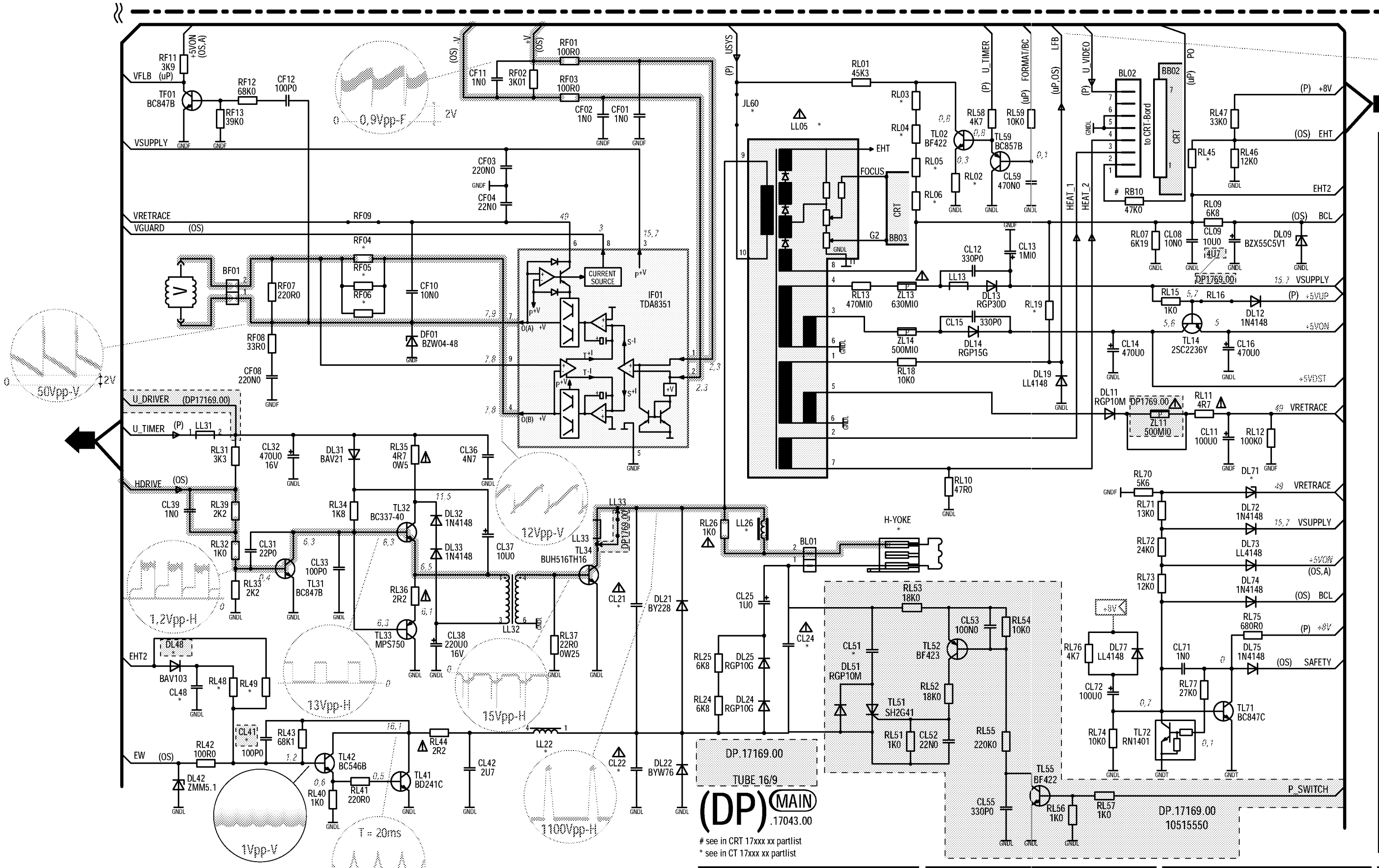
Part of board connected to mains supply.
Partie du châssis reliée au secteur.
Primärseite des Netzteils.
Parte dello châssis collegata alla rete.
Parte del chassis conectar a la red.

Tube	Format	Usys	Jumper	RL65
A51EFS83X191	4:3	126V	JL80	4k7
A59EHJ43X15	4.3	132V	JL81	24k
A66EHJ43X15	4:3	132V	JL81	24k
A59EGD048X30	4:3	126V	JL80	4k7
A68EGD038X30	4:3	126V	JL80	4k7
A68AGA25X01	4:3	126V	JL80	4k7
A80AEJ15X01	4:3	126V	JL80	4k7
W56EGV023X015	16:9	138V	JL82	47k
W66EGV023X015	16:9	138V	JL82	47k
W76EGV023X015	16:9	138V	JL82	47k

(5) : standby
MAIN
(PP)17900
To DEGAUSSING-COIL
BP15
RP15 9R0
RP07 5R0
CP15 68N0
TP15 BTB06-600C
TP14 BC547B
RP05 ERZV14D511
RP03 10R0
LP01
FP01 T 2.5 AL
BP01 Mainsvoltage (180V-260V)
AC MAINS
TP50 ON4977(BU2525AX)
LP44
IP20 TS3702CD
TP21 BF423
LP20
IP50 TLP621
IP61 TL431ACZ
LP50
IP95 TDA8139
IP87 MC7812/CT
BP85
BL80
BL81
BL82
EFC
EFC-coil
EFC.17000.00 (TUBE 16/9)
HEARTH FIELD CONNECTION COIL
ICC17
U_STBY
+5VUP
STBY_ON
U_TIMER
+5VON
+8V
U_VIDEO
+33V
USYS
+UA
(A) -UA
+5VDST
POWER_FAIL (A.UP)
RESET-
HEAT-GND
(UP) PO
PGND

Use isolating mains transformer - Utiliser un transformateur isolateur du secteur -Einen Trenntrafo verwenden
Utilizar un transformador aislador de red - Utilizzare un trasformatore per isolarvi dalla rete

SCANNING - BALAYAGE - ABLENKUNG - BARRIDO - SCANSIONE



see in CRT 17xxx xx partlist

* see in CT 17xxx xx partlist

	TV ASY A59EHJ43X15 00 TV ASY A66EHJ43X15 00 Tube 4/3 25", 28" , MP /Vectorgun
10518330	TV PSD CT 17061 32
CL21	14N0F +3.5% -3.5% 1K5V
CL22	30N0F +5% -5% 400.0V
CL24	470N0F +5% -5% 250.0V
CL24	440N0F +5% -5% 250.0V
CL41	100P0F +10% -10% 50.0V
CL48	CPM 10N0F +10% 63.0V
DL48	D-SLP BAV103 200.0V
DL71	D-ZENER BZX55C30 30V 500MI0W
JL60	WIREBARE 22
JL81	0 OHM +0% 100MI0W
JP80	0 OHM +0% 100MI0W
LB02	LF 18U0H +7% -7%
LL05	TF-DST M30FBC3 10546610 3087 A0
LL22	LF 650U0H +5% -5% R 2873 A0 00
LL26	LL 26U5H +10%
LL26	LL 30U5H 2519 A0
RF04	1R21 OHM +1% 700MI0W
RF05	1R0 OHM +1% 700MI0W
RF05	1R21 OHM +1% 700MI0W
RF06	12R1 OHM +1% 100MI0W
RL02	10K0 OHM +5% 100MI0W
RL02	6K04 OHM +1% 100MI0W
RL02	499R0 OHM +1% 100MI0W
RL03	10K0 OHM +1% 100MI0W
RL03	11K5 OHM +1% 100MI0W
RL04	10K0 OHM +1% 100MI0W
RL04	20K0 OHM +1% 100MI0W
RL04	11K5 OHM +1% 100MI0W
RL05	10K0 OHM +1% 100MI0W
RL05	20K0 OHM +1% 100MI0W
RL05	11K5 OHM +1% 100MI0W
RL06	4K75 OHM +1% 100MI0W
RL06	11K5 OHM +1% 100MI0W
RL11	4R7 OHM +10% 250MI0W
RL11	4R7 OHM +5% 250MI0W
RL19	22K0 OHM +5% 100MI0W
RL19	33K0 OHM +5% 100MI0W
RL43	68K1 OHM +1% 250MI0W
RL43	68K1 OHM +1% 250MI0W
RL43	68K1 OHM +1% 100MI0W
RL45	180K0 OHM +5% 100MI0W
RL45	270K0 OHM +5% 100MI0W
RL46	12K0 OHM +5% 100MI0W
RL47	33K0 OHM +5% 100MI0W
RL48	76K8 OHM +1% 100MI0W
RL48	60K4 OHM +1% 100MI0W
RL64	8K25 OHM +1% 100MI0W
RL65	RCF 24K0 OHM +5% 250MI0W
RV20	RMF 33K2 OHM +1% 250MI0W
RV20	33K2 OHM +1% 100MI0W
ZL13	PROTEC MOD MP63 630MI0 A 65.0V

⚠ Indicates critical safety components, and identical components should be used for replacement. Only then can the operational safety be garanteed.

Le remplacement des éléments de sécurité (repérés avec le symbole ⚠) par des composants non homologués selon la Norme CEI 65 entraine la non-conformité de l'appareil.
Dans ce cas, la responsabilité du fabricant n'est plus engagée.

Wenn Sicherheitsteile (mit dem Symbol ⚠ gekennzeichnet) durch nicht normgerechte Teile ersetzt werden, erlischt die Haftung des Herstellers.

La sostituzione degli elementi di sicurezza (contrassegnati con il segno ⚠) con componenti non omologati secondo la norma CEI 65 comporta la non conformitá dell'apparecchio.
In tal caso é "esclusa la responsabilità" del costruttore.

La subtitución de elementos de seguridad (marcados con el simbolo ⚠) por componentes no homologados segun la norma CEI 65, provoca la no conformidad del aparato.
En ese caso, el fabricante cesa de ser responsable.

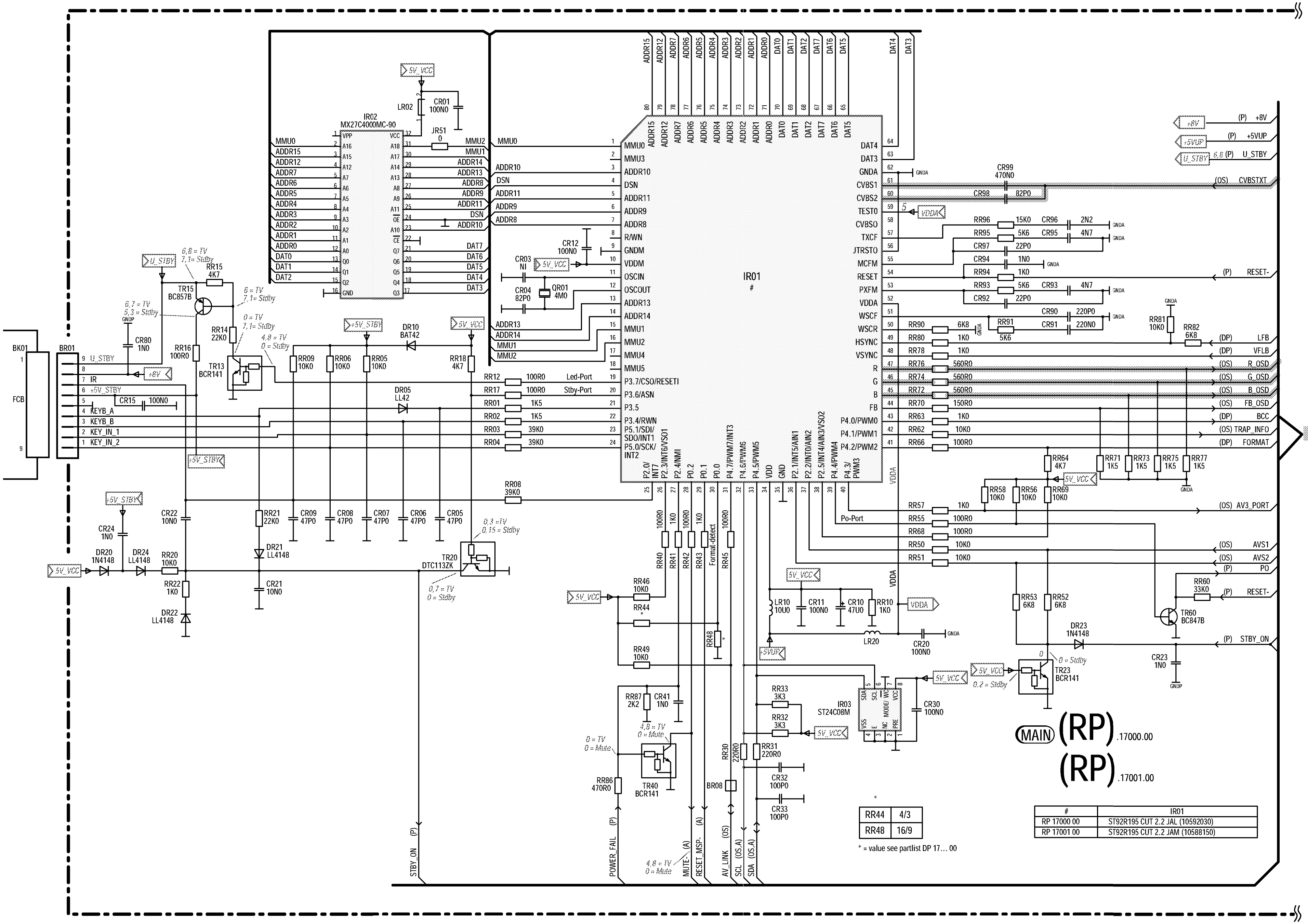
	TV ASY A80AEJ15X01 (A) 00 Tube 4/3 33" , MP
10575830	TV PSD CT 17062 26
CL21	16N2F +3.5% -3.5% 1K6V
CL22	30N0F +5% -5% 400.0V
CL24	560N0F +5% -5% 250.0V
CL41	100P0F +10% -10% 50.0V
CL48	10N0F +10% 63.0V
DL48	D-SLP BAV103 200.0V
DL71	D-ZENER BZX55C30 30V 500MI0W
JL60	WIREBARE 22
JL80	0 OHM +0% 100MI0W
LB02	LF 32U0H +4% -4%
LL05	TF-DST TDS29 TBD 11
LL22	LF 650U0H +5% -5% R 2873 A0 00
LL26	LL 26U5H +10%
RF05	1R21 OHM +1% 700MI0W
RF06	10R0 OHM +1% 100MI0W
RL02	6K04 OHM +1% 100MI0W
RL03	4K75 OHM +1% 100MI0W
RL04	4K75 OHM +1% 100MI0W
RL05	4K75 OHM +1% 100MI0W
RL06	6K81 OHM +1% 100MI0W
RL19	13K0 OHM +5% 100MI0W
RL45	150K0 OHM +5% 100MI0W
RL48	76K8 OHM +1% 100MI0W
RL49	560K0 OHM +5% 100MI0W
RL65	RCF 4K7 OHM +5% 250MI0W
RV20	RMF 23K7 OHM +1% 250MI0W

	TV ASY A51EFS83X191 03 Tube 4/3 21" OT
10555770	TV PSD CT 17035 26
CL21	8N3F +3.5% -3.5% 1K6V
CL22	33N0F +5% -5% 1K0V
CL24	440N0F +5% -5% 250.0V
CL41	1N0F +10% -10% 50.0V
DL71	D-ZENER BZX55C24 24V 500MI0W
JL60	WIREBARE 22
JL80	0 OHM +0% 100MI0W
LB02	LF 18U0H +7% -7%
LL05	TF-DST M30FBC3 10555640 3087 A0
LL22	LF 650U0H +5% -5% R 2873 A0 00
LL26	LL 85U0H 2519 A0
RF05	1R5 OHM +1% 700MI0W
RF06	10R0 OHM +1% 100MI0W
RL02	6K04 OHM +1% 100MI0W
RL03	10K0 OHM +1% 100MI0W
RL04	10K0 OHM +1% 100MI0W
RL05	10K0 OHM +1% 100MI0W
RL06	3K32 OHM +1% 100MI0W
RL45	110K0 OHM +5% 100MI0W
RL49	60K4 OHM +1% 100MI0W
RL65	4K7 OHM +5% 250MI0W
RV20	23K7 OHM +1% 250MI0W

	TV ASY A59EGD048X30 19 TV ASY A68EGD038X30 (A) 68 00 Tube 4/3 25" SF, 29" SF
10515520	TV PSD CT 17071 26
CL21	16N2F +3.5% -3.5% 1K6V
CL22	30N0F +5% -5% 400.0V
CL24	510N0F +5% -5% 250.0V
CL41	100P0F +10% -10% 50.0V
CL48	10N0F +10% 63.0V
DL48	D-SLP BAV103 200.0V
DL71	D-ZENER BZX55C30 30V 500MI0W
JL60	WIREBARE 22
JL80	0 OHM +0% 100MI0W
LB02	LF 32U0H +4% -4%
LL05	TF-DST TDS29 TBD 13
LL22	LF 650U0H +5% -5%
LL26	LL 26U5H +10%
RF05	RMF 1R0 OHM +1% 700MI0W
RL02	6K8 OHM +5% 100MI0W
RL03	4K75 OHM +1% 100MI0W
RL04	4K75 OHM +1% 100MI0W
RL05	4K75 OHM +1% 100MI0W
RL06	4K75 OHM +1% 100MI0W
RL19	15K0 OHM +5% 100MI0W
RL45	180K0 OHM +5% 100MI0W
RL48	100K0 OHM +5% 100MI0W
RL49	300K0 OHM +5% 100MI0W
RL65	4K7 OHM +5% 250MI0W
RV20	33K2 OHM +1% 250MI0W

	TV ASY W56EGV023X015 56 01 TV ASY W66EGV023X015 66 00 TV ASY W76EGV023X015 (A) 00 Tube 16/9 24", 28",32", SF / vectorgun
10515530	TV PSD CT 17083 38
CL21	15N5F +3.5% -3.5% 1K6V
CL22	27N0F +5% -5% 400.0V
CL24	440N0F +5% -5% 250.0V
CL41	100P0F +10% -10% 50.0V
CL48	100N0F +5% 63.0V
CL51	290N0F +5% -5% 250.0V
DL48	D-SLP BAV103 200.0V
DL71	D-ZENER BZX55C24 24V 500MI0W
JL60	WIREBARE 22
JL82	0 OHM +0% 100MI0W
LB02	LF 32U0H +4% -4%
LL05	TF-DST TDS29 15314460 10
LL22	LF 650U0H +5% -5%
LL26	LL 30U5H 2519 A0
RF05	1R21 OHM +1% 700MI0W
RL02	4K99 OHM +1% 100MI0W
RL03	6K49 OHM +1% 100MI0W
RL04	6K49 OHM +1% 100MI0W
RL05	6K49 OHM +1% 100MI0W
RL06	2K37 OHM +1% 100MI0W
RL19	13K0 OHM +5% 100MI0W
RL45	390K0 OHM +5% 100MI0W
RL48	220K0 OHM +5% 100MI0W
RL49	180K0 OHM +5% 100MI0W
RL65	47K0 OHM +5% 250MI0W
RV20	100K0 OHM +1% 250MI0W

CONTROL MICROPROCESSOR - MICROPROCESSEUR DE COMMANDE - MIKROPROZESSOR - MICROPROCESSORE DEI COMANDI - MICROPROCESADOR DE LOS MANDOS



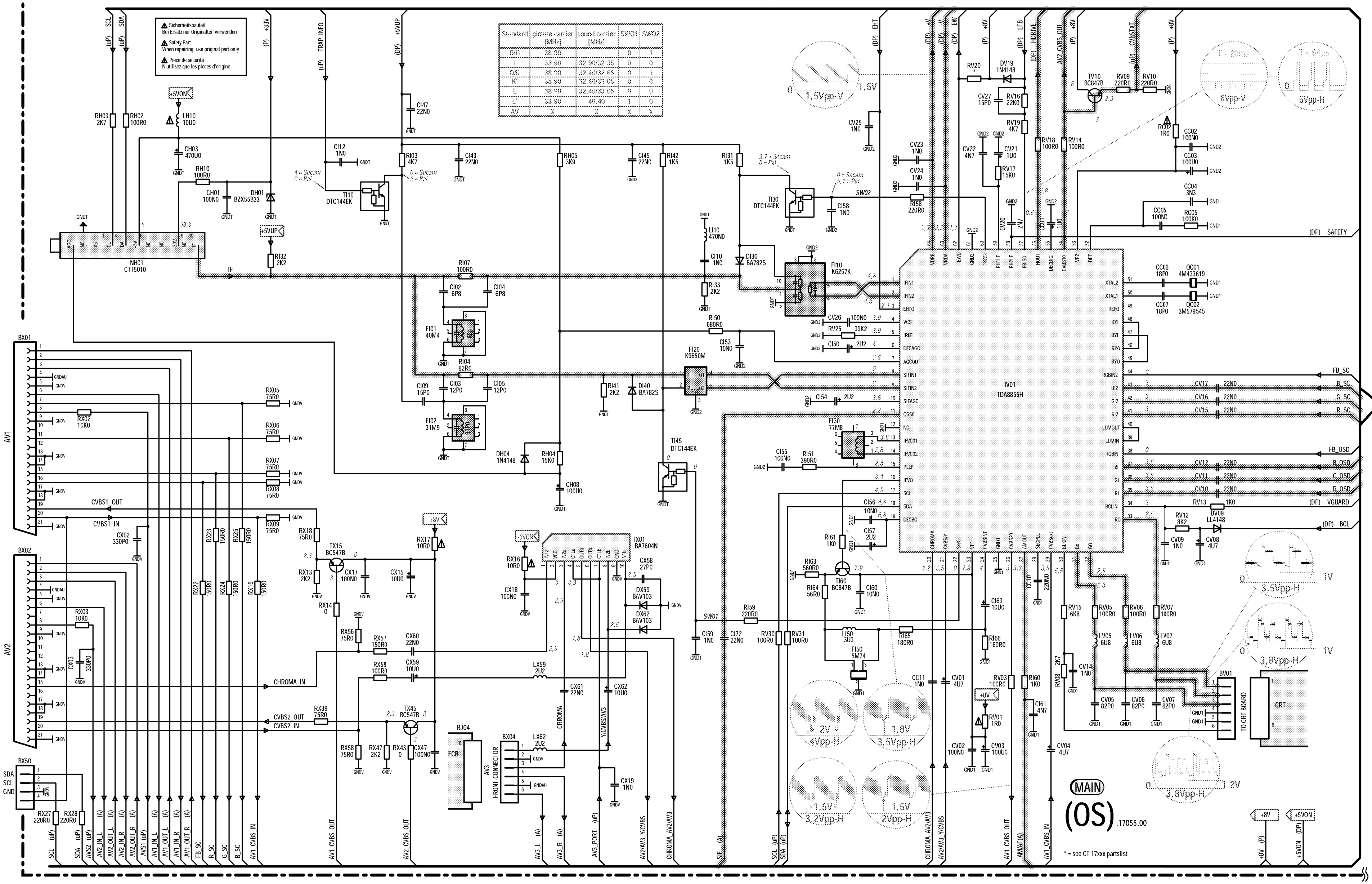
IR01
#
IR02
MX27C4000MC-90
IR03
ST24C08M
BK01
BR01
FCB
U_STBY
IR
+5V_STBY
KEYB_A
KEYB_B
KEY_IN_1
KEY_IN_2
MMU0
MMU1
MMU2
MMU3
MMU4
MMU5
ADDR8
ADDR9
ADDR10
ADDR11
ADDR13
ADDR14
DSN
R/WN
GNDM
VDDM
OSCIN
OSCOUT
P3.7/CSO/RESETI
P3.6/ASN
P3.5
P3.4/RWN
P5.1/SDI/SDO/INT1
P5.0/SCK/INT2
DAT4
DAT3
GNDA
CVBS1
CVBS2
TEST0
CVBSO
TXCF
JTRSTO
MCFM
RESET
PXFM
VDDA
WSCF
WSCR
HSYNC
VSYNC
R
G
B
FB
P4.0/PWM0
P4.1/PWM1
P4.2/PWM2
QR01 4M0
TR13 BCR141
TR15 BC857B
TR20 DTC113ZK
TR23 BCR141
TR40 BCR141
TR60 BC847B
DR10 BAT42
DR05 LL42
DR20 1N4148
DR21 LL4148
DR22 LL4148
DR23 1N4148
DR24 LL4148
LR02
LR10 10U0
LR20
BR08
Led-Port
Stby-Port
Po-Port
Format-detect
(P) +8V
(P) +5VUP
(P) U_STBY
(OS) CVBSTXT
(P) RESET-
(DP) LFB
(DP) VFLB
(OS) R_OSD
(OS) G_OSD
(OS) B_OSD
(OS) FB_OSD
(DP) BCC
(OS) TRAP_INFO
(DP) FORMAT
(OS) AV3_PORT
(OS) AVS1
(OS) AVS2
(P) PO
(P) RESET-
(P) STBY_ON
STBY_ON (P)
POWER_FAIL (P)
MUTE- (A)
RESET_MSP- (A)
AV_LINK (OS)
SCL (OS,A)
SDA (OS,A)
6,8 = TV
7,1= Stdby
0 = TV
0 = Mute
4,8 = TV
0 = Stdby
0,3 = TV
0,15 = Stdby
MAIN (RP).17000.00
(RP).17001.00

RR44	4/3
RR48	16/9

* = value see partlist DP 17… 00

#	IR01
RP 17000 00	ST92R195 CUT 2.2 JAL (10592030)
RP 17001 00	ST92R195 CUT 2.2 JAM (10588150)

RF/FI/ SCART INTERFACE/VIDEO SIGNAL PROCESSING -HF/FI INTERFACE PERITELEVISION/TRAITEMENT LUMINANCE CHROMINANCE - HF/ZF/ SCART INTERFACE/VIDEO SIGNALVERARBEITUNG - RF/FI /PRESA PERITEL/ELABORAZIONE VIDEO - RF/FI /EUROCONECTOR / TRATAMENTO VIDEO



⚠ Sicherheitsbauteil
Bei Ersatz nur Originalteil verwenden

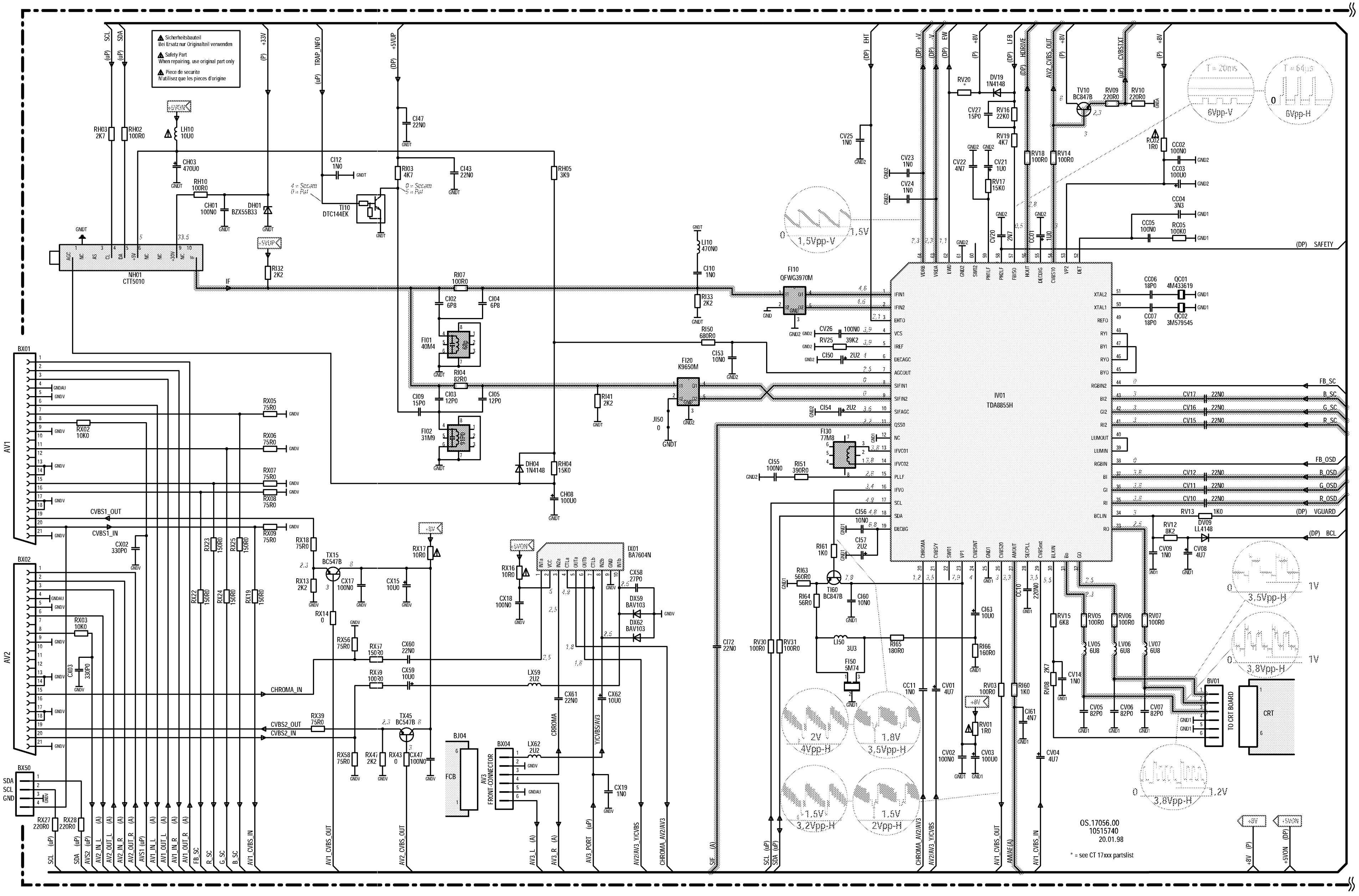
⚠ Safety Part
When repairing, use original part only

⚠ Piece de securite
N'utilisez que les pieces d'origine

Standard	picture carrier [MHz]	sound carrier [MHz]	SW01	SW02
B/G	38.90		0	1
I	38.90	32.90/32.35	0	0
D/K	38.90	32.40/32.65	0	1
K'	38.90	32.40/33.05	0	0
L	38.90	32.40/33.05	0	0
L'	33.90	40.40	1	0
AV	X	X	X	X

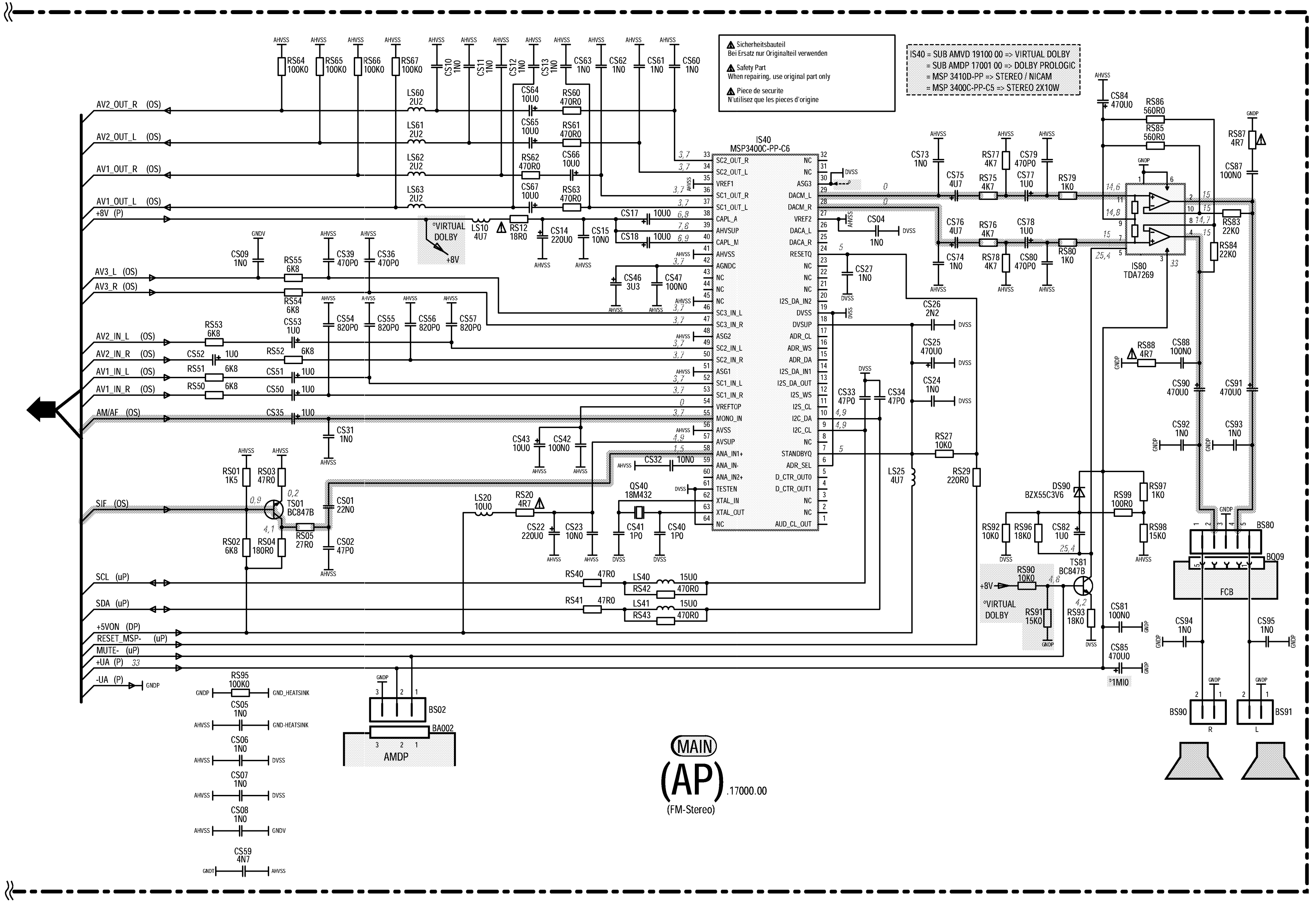
NH01 CTT5010
IV01 TDA8855H
IX01 BA7604N
FI10 K6257K
FI20 K9650M
FI01 40M4
FI02 31M9
FI30 77M8
FI50 5M74
BX01 AV1
BX02 AV2
BX50
BX04 AV3 FRONT-CONNECTOR
BJ04 FCB
BV01 TO CRT BOARD
CRT
QC01 4M433619
QC02 3M579545
CVBS1_OUT
CVBS1_IN
CVBS2_OUT
CVBS2_IN
CHROMA_IN
IF
SW01
SW02
(DP) SAFETY
(DP) VGUARD
(DP) BCL
FB_SC
R_SC
G_SC
B_SC
FB_OSD
R_OSD
G_OSD
B_OSD
1,5Vpp-V
1,5V
6Vpp-V
6Vpp-H
T = 20ms
T = 64µs
3,5Vpp-H
3,8Vpp-H
1V
2V
4Vpp-H
1,8V
3,5Vpp-H
1,5V
3,2Vpp-H
2Vpp-H
3,8Vpp-H
1,2V
MAIN
(OS).17055.00
* = see CT 17xxx partslist

RF/FI/ SCART INTERFACE/VIDEO SIGNAL PROCESSING -HF/FI INTERFACE PERITELEVISION/TRAITEMENT LUMINANCE CHROMINANCE - HF/ZF/ SCART INTERFACE/VIDEO SIGNALVERARBEITUNG - RF/FI /PRESA PERITEL/ELABORAZIONE VIDEO - RF/FI /EUROCONECTOR/TRATAMENTO VIDEO



Sicherheitsbauteil
Bei Ersatz nur Originalteil verwenden
Safety Part
When repairing, use original part only
Piece de securite
N'utilisez que les pieces d'origine
NH01
CTT5010
IF
BX01
AV1
BX02
AV2
BX50
SDA
SCL
GND
CVBS1_OUT
CVBS1_IN
CHROMA_IN
CVBS2_OUT
CVBS2_IN
TX15
BC547B
TX45
BC547B
IX01
BA7604N
BJ04
FCB
BX04
AV3
FRONT-CONNECTOR
TI10
DTC144EK
FI01
40M4
FI02
31M9
FI10
QFWG3970M
FI20
K9650M
FI30
77M8
FI50
5M74
TI60
BC847B
IV01
TDA8855H
TV10
BC847B
QC01
4M433619
QC02
3M579545
DV19
1N4148
DV09
LL4148
DH01
BZX55B33
DH04
1N4148
BV01
TO CRT BOARD
CRT
1,5Vpp-V
1,5V
6Vpp-V
6Vpp-H
T = 20ms
T = 64µs
3,5Vpp-H
3,8Vpp-H
4Vpp-H
3,5Vpp-H
3,2Vpp-H
2Vpp-H
2V
1,8V
1,5V
1V
1,2V
(DP) SAFETY
FB_SC
B_SC
G_SC
R_SC
FB_OSD
B_OSD
G_OSD
R_OSD
(DP) VGUARD
(DP) BCL
(uP) SCL
(uP) SDA
(P) +33V
(uP) TRAP_INFO
(DP) +5VUP
(DP) EHT
(DP) -V
(DP) +V
(DP) EW
(P) +8V
(DP) LFB
(DP) HDRIVE
AV2_CVBS_OUT
(uP) CVBSTXT
SCL (uP)
SDA (uP)
AVS2 (uP)
AV2_IN_L (A)
AV2_OUT_L (A)
AV2_IN_R (A)
AV2_OUT_R (A)
AVS1 (uP)
AV1_IN_L (A)
AV1_OUT_L (A)
AV1_IN_R (A)
AV1_OUT_R (A)
FB_SC
R_SC
G_SC
B_SC
AV1_CVBS_IN
AV1_CVBS_OUT
AV2_CVBS_OUT
AV3_L (A)
AV3_R (A)
AV3_PORT (uP)
AV2/AV3_Y/CVBS
CHROMA_AV2/AV3
SIF (A)
CHROMA_AV2/AV3
AV2/AV3_Y/CVBS
AV1_CVBS_OUT
AM/AE(A)
AV1_CVBS_IN
+8V (P)
+5VON (DP)
OS.17056.00
10515740
20.01.98
* = see CT 17xxx partslist
4 = Secam
0 = Pal

AMPLIFIER SCHEMATIC DIAGRAM - SCHEMA DE L'AMPLIFICATEUR - SCHALTBILD AUDIO-SIGNALVERABEITUNG - SCHEMA DELL' AMPLIFICATORE
ESQUEMA DEL AMPLIFICADOR
(STEREO)



⚠ Sicherheitsbauteil
Bei Ersatz nur Originalteil verwenden
⚠ Safety Part
When repairing, use original part only
⚠ Piece de securite
N'utilisez que les pieces d'origine
IS40 = SUB AMVD 19100 00 => VIRTUAL DOLBY
= SUB AMDP 17001 00 => DOLBY PROLOGIC
= MSP 3410D-PP => STEREO / NICAM
= MSP 3400C-PP-C5 => STEREO 2X10W
IS40
MSP3400C-PP-C6
IS80
TDA7269
AV2_OUT_R (OS)
AV2_OUT_L (OS)
AV1_OUT_R (OS)
AV1_OUT_L (OS)
+8V (P)
AV3_L (OS)
AV3_R (OS)
AV2_IN_L (OS)
AV2_IN_R (OS)
AV1_IN_L (OS)
AV1_IN_R (OS)
AM/AF (OS)
SIF (OS)
SCL (uP)
SDA (uP)
+5VON (DP)
RESET_MSP- (uP)
MUTE- (uP)
+UA (P) 33
-UA (P)
SC2_OUT_R
SC2_OUT_L
VREF1
SC1_OUT_R
SC1_OUT_L
CAPL_A
AHVSUP
CAPL_M
AHVSS
AGNDC
SC3_IN_L
SC3_IN_R
ASG2
SC2_IN_L
SC2_IN_R
ASG1
SC1_IN_L
SC1_IN_R
VREFTOP
MONO_IN
AVSS
AVSUP
ANA_IN1+
ANA_IN-
ANA_IN2+
TESTEN
XTAL_IN
XTAL_OUT
ASG3
DACM_L
DACM_R
VREF2
DACA_L
DACA_R
RESETQ
I2S_DA_IN2
DVSS
DVSUP
ADR_CL
ADR_WS
ADR_DA
I2S_DA_IN1
I2S_DA_OUT
I2S_WS
I2S_CL
I2C_DA
I2C_CL
STANDBYQ
ADR_SEL
D_CTR_OUT0
D_CTR_OUT1
AUD_CL_OUT
°VIRTUAL DOLBY
+8V
TS01 BC847B
TS81 BC847B
QS40 18M432
DS90 BZX55C3V6
BS80
BQ09
FCB
BS02
BA002
AMDP
BS90
BS91
R
L
GND_HEATSINK
°1MI0

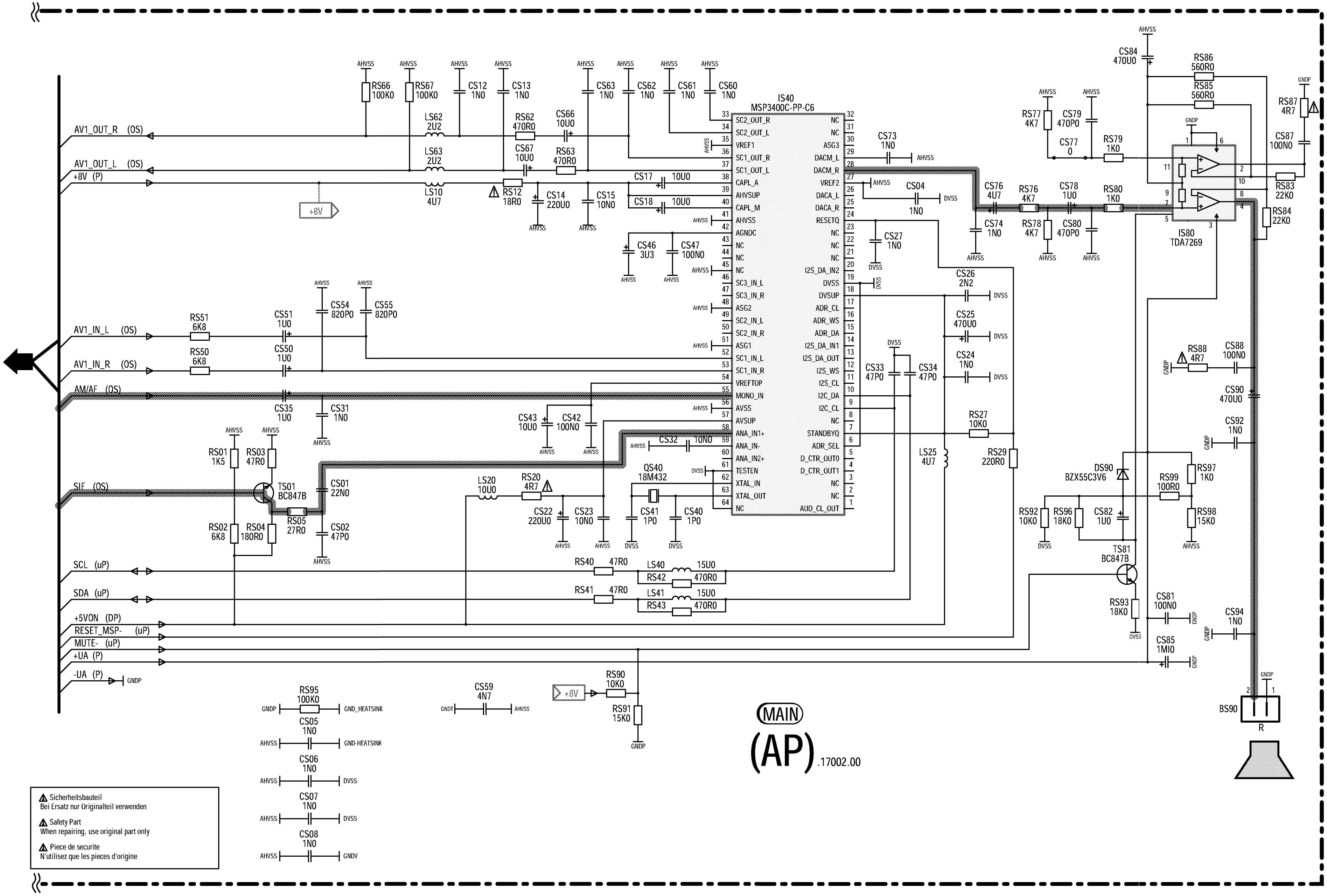
MAIN

(AP).17000.00

(FM-Stereo)

ICC17
First issue 07 / 98

AMPLIFIER SCHEMATIC DIAGRAM - SCHEMA DE L'AMPLIFICATEUR - SCHALTBILD AUDIO-SIGNALVERABEITUNG - SCHEMA DELL' AMPLIFICATORE - ESQUEMA DEL AMPLIFICADOR
(MONO)

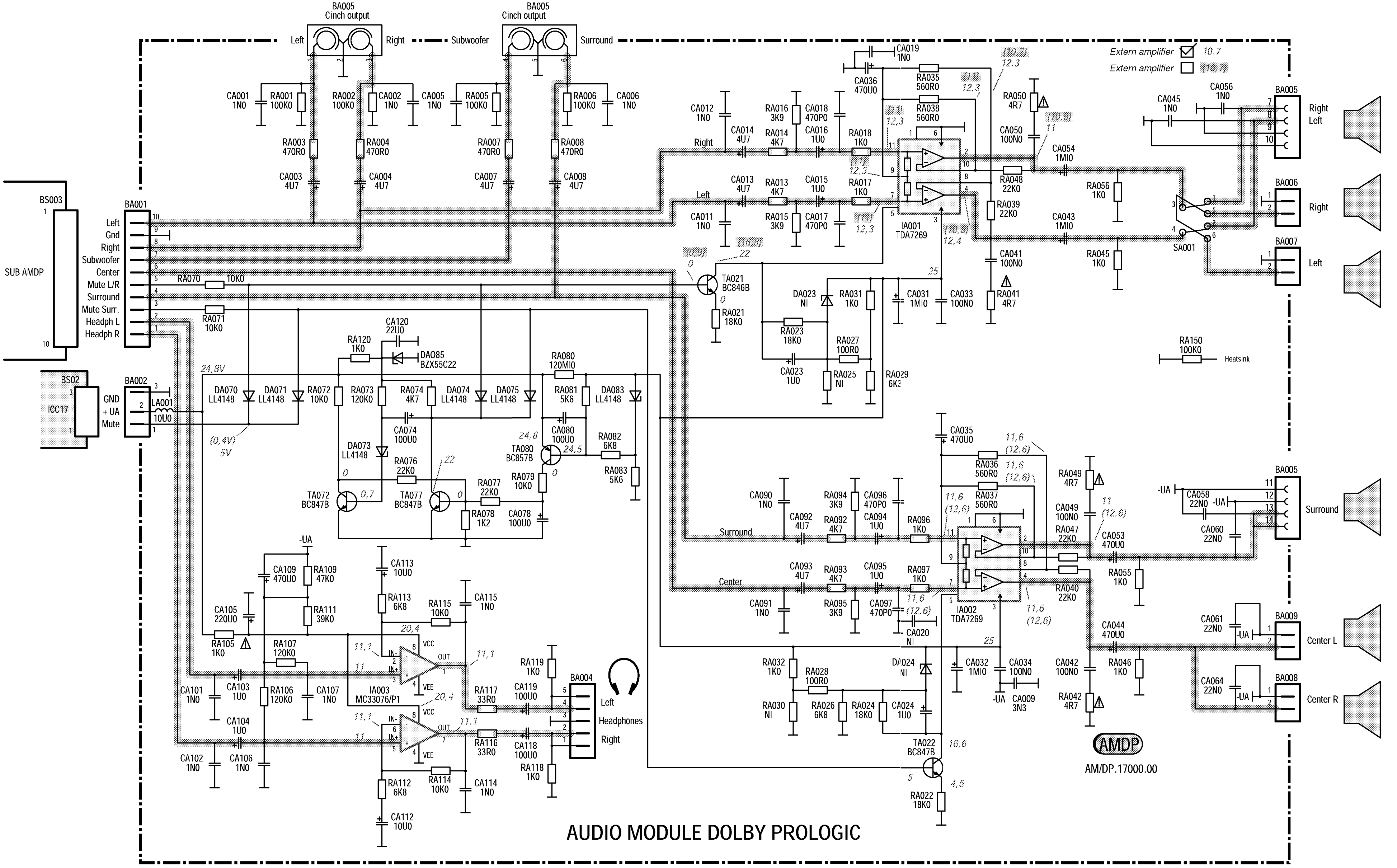

IS40
MSP3400C-PP-C6
IS80
TDA7269
AV1_OUT_R (OS)
AV1_OUT_L (OS)
+8V (P)
AV1_IN_L (OS)
AV1_IN_R (OS)
AM/AF (OS)
SIF (OS)
SCL (uP)
SDA (uP)
+5VON (DP)
RESET_MSP- (uP)
MUTE- (uP)
+UA (P)
-UA (P)
GNDP
AHVSS
DVSS
TS01
BC847B
TS81
BC847B
DS90
BZX55C3V6
QS40
18M432
BS90
R
MAIN
(AP)
.17002.00

⚠ Sicherheitsbauteil
Bei Ersatz nur Originalteil verwenden

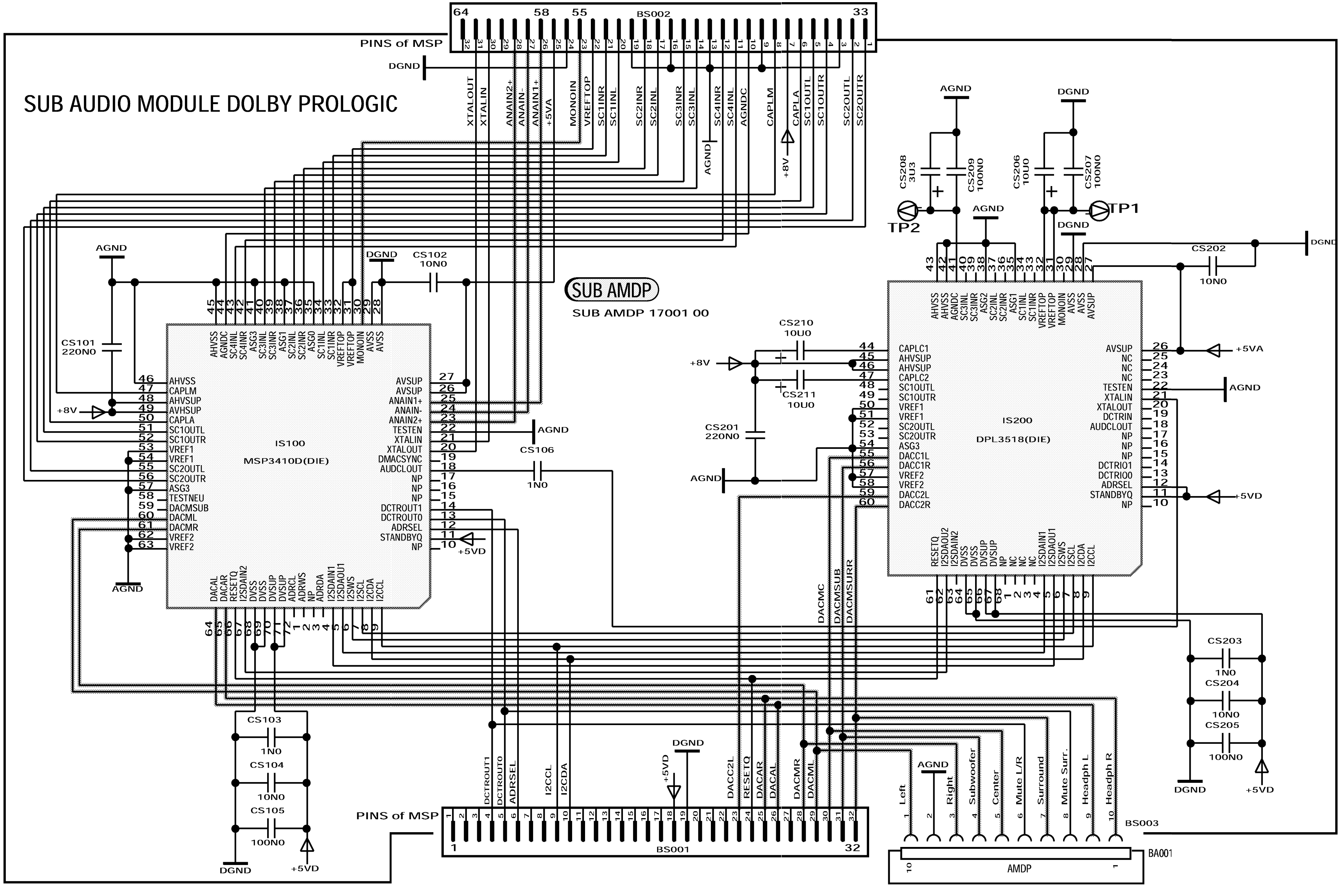
⚠ Safety Part
When repairing, use original part only

⚠ Piece de securite
N'utilisez que les pieces d'origine

AUDIO SIGNAL MODULE DOLBY PROLOGIC - MODULE AUDIO DOLBY PROLOGIC - DOLBY PROLOGIC VERSTÄRKER - MODULO AUDIO DOLBY PROLOGIC ESQUEMA DEL MÕDULO AMPLIFICADOR DE AUDIO

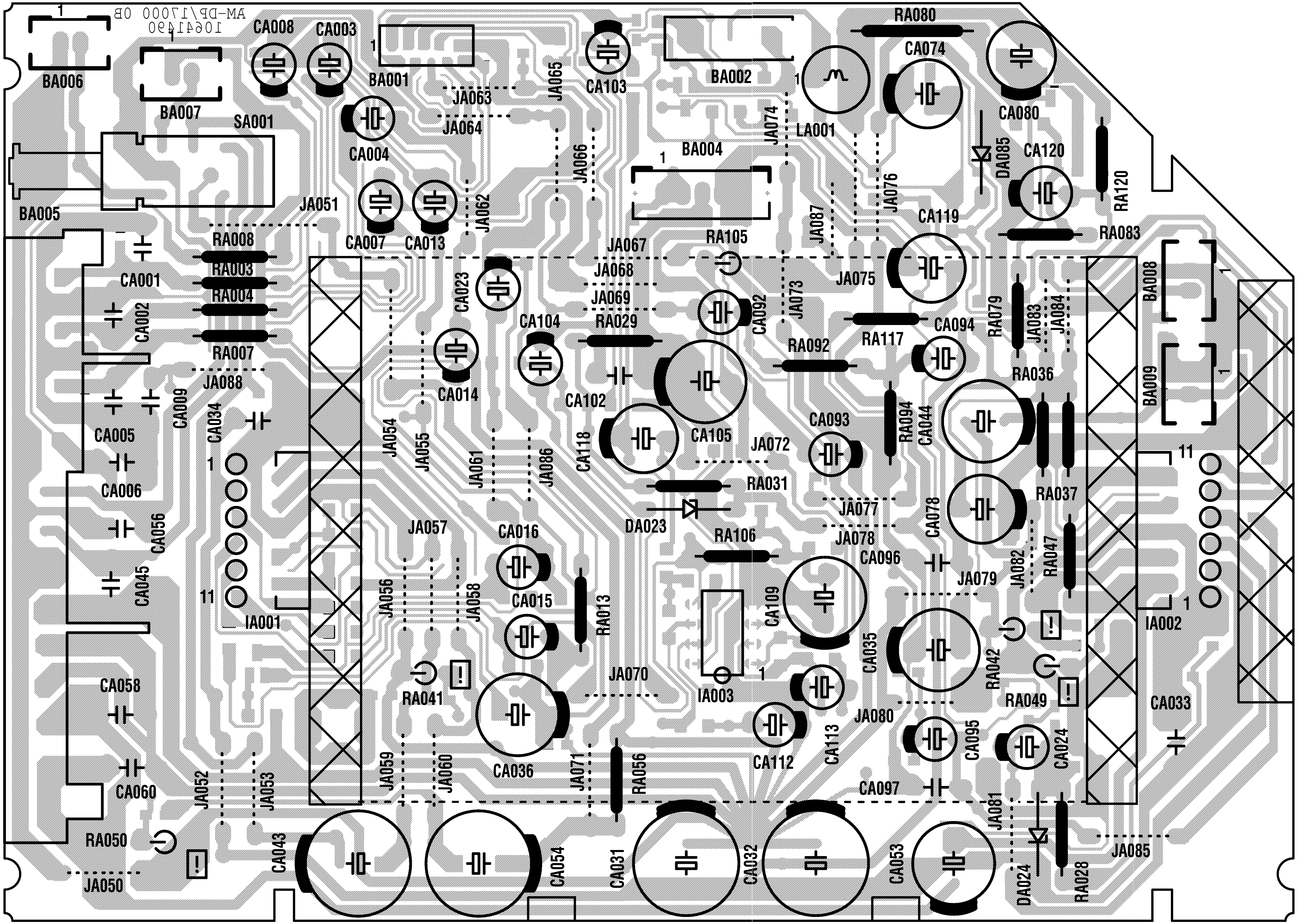

AUDIO MODULE DOLBY PROLOGIC
AM/DP.17000.00
AMDP
BA005 Cinch output
Left
Right
Subwoofer
Surround
SUB AMDP
BS003
BA001
Left
Gnd
Right
Subwoofer
Center
Mute L/R
Surround
Mute Surr.
Headph L
Headph R
BS02
ICC17
BA002
GND
+ UA
Mute
LA001 10U0
CA001 1N0
RA001 100K0
RA002 100K0
CA002 1N0
CA005 1N0
RA005 100K0
RA006 100K0
CA006 1N0
RA003 470R0
RA004 470R0
RA007 470R0
RA008 470R0
CA003 4U7
CA004 4U7
CA007 4U7
CA008 4U7
RA070 10K0
RA071 10K0
CA120 22U0
RA120 1K0
DA085 BZX55C22
RA080 120MI0
DA070 LL4148
DA071 LL4148
RA072 10K0
RA073 120K0
RA074 4K7
DA074 LL4148
DA075 LL4148
RA081 5K6
DA083 LL4148
CA074 100U0
CA080 100U0
DA073 LL4148
RA076 22K0
RA082 6K8
RA083 5K6
TA080 BC857B
RA079 10K0
TA072 BC847B
TA077 BC847B
RA077 22K0
RA078 1K2
CA078 100U0
24,8V
(0,4V) 5V
24,8
24,5
0,7
22
-UA
CA109 470U0
RA109 47K0
RA111 39K0
CA105 220U0
RA105 1K0
CA113 10U0
RA113 6K8
RA115 10K0
CA115 1N0
20,4
11,1
11
IA003 MC33076/P1
VCC
VEE
OUT
IN-
IN+
RA107 120K0
RA106 120K0
CA107 1N0
CA101 1N0
CA103 1U0
CA104 1U0
CA102 1N0
CA106 1N0
RA119 1K0
RA117 33R0
CA119 100U0
BA004
Headphones
RA116 33R0
CA118 100U0
RA118 1K0
RA112 6K8
RA114 10K0
CA114 1N0
CA112 10U0
CA019 1N0
CA036 470U0
RA035 560R0
RA038 560R0
CA012 1N0
RA016 3K9
CA018 470P0
CA014 4U7
RA014 4K7
CA016 1U0
RA018 1K0
CA013 4U7
RA013 4K7
CA015 1U0
RA017 1K0
CA011 1N0
RA015 3K9
CA017 470P0
IA001 TDA7269
RA050 4R7
CA050 100N0
CA054 1MI0
RA048 22K0
RA039 22K0
CA043 1MI0
CA041 100N0
RA041 4R7
RA056 1K0
RA045 1K0
SA001
CA045 1N0
CA056 1N0
Extern amplifier ☑ 10,7
Extern amplifier ☐ (10,7)
BA006
BA007
TA021 BC846B
RA021 18K0
DA023 NI
RA031 1K0
CA031 1MI0
CA033 100N0
RA023 18K0
RA027 100R0
CA023 1U0
RA025 NI
RA029 6K3
RA150 100K0
Heatsink
(10,7) 12,3
(11) 12,3
(10,9) 11
(10,9) 12,4
(16,8) 22
(0,9) 0
25
CA035 470U0
RA036 560R0
RA037 560R0
11,6 (12,6)
RA049 4R7
CA049 100N0
RA047 22K0
CA053 470U0
RA055 1K0
RA040 22K0
CA090 1N0
CA092 4U7
RA094 3K9
RA092 4K7
CA096 470P0
CA094 1U0
RA096 1K0
CA093 4U7
RA093 4K7
CA095 1U0
RA097 1K0
CA091 1N0
RA095 3K9
CA097 470P0
CA020 NI
IA002 TDA7269
11 (12,6)
CA058 22N0
CA060 22N0
CA044 470U0
RA046 1K0
CA042 100N0
RA042 4R7
CA061 22N0
CA064 22N0
BA009
Center L
BA008
Center R
RA032 1K0
RA028 100R0
RA030 NI
RA026 6K8
RA024 18K0
CA024 1U0
DA024 NI
CA032 1MI0
CA034 100N0
CA009 3N3
TA022 BC847B
RA022 18K0
16,6
4,5
5

SUB AUDIO SIGNAL MODULE - SUB MODULE AUDIO - AUDIO SIGNAL SUBMODUL - SUB MODULO AUDIO


SUB AUDIO MODULE DOLBY PROLOGIC
SUB AMDP
SUB AMDP 17001 00
BS002
PINS of MSP
64
58
55
33
DGND
XTALOUT
XTALIN
ANAIN2+
ANAIN-
ANAIN1+
+5VA
MONOIN
VREFTOP
SC1INR
SC1INL
SC2INR
SC2INL
SC3INR
SC3INL
SC4INR
SC4INL
AGNDC
CAPLM
CAPLA
SC1OUTL
SC1OUTR
SC2OUTL
SC2OUTR
AGND
+8V
IS100
MSP3410D(DIE)
AHVSS
CAPLM
AHVSUP
AVHSUP
CAPLA
SC1OUTL
SC1OUTR
VREF1
SC2OUTL
SC2OUTR
ASG3
TESTNEU
DACMSUB
DACML
DACMR
VREF2
AGNDC
SC4INL
SC4INR
ASG3
SC3INL
SC3INR
ASG1
SC2INL
SC2INR
ASG0
SC1INL
SC1INR
VREFTOP
MONOIN
AVSS
AVSUP
ANAIN1+
ANAIN-
ANAIN2+
TESTEN
XTALIN
XTALOUT
DMACSYNC
AUDCLOUT
NP
DCTROUT1
DCTROUT0
ADRSEL
STANDBYQ
DACAL
DACAR
RESETQ
I2SDAIN2
DVSS
DVSUP
ADRCL
ADRWS
ADRDA
I2SDAIN1
I2SDAOU1
I2SWS
I2SCL
I2CDA
I2CCL
CS101
220N0
CS102
10N0
CS106
1N0
CS103
1N0
CS104
10N0
CS105
100N0
+5VD
IS200
DPL3518(DIE)
CAPLC1
AHVSUP
CAPLC2
SC1OUTL
SC1OUTR
VREF1
SC2OUTL
SC2OUTR
ASG3
DACC1L
DACC1R
VREF2
DACC2L
DACC2R
AHVSS
AGNDC
SC3INL
SC3INR
ASG2
SC2INL
SC2INR
ASG1
SC1INL
SC1INR
VREFTOP
MONOIN
AVSS
AVSUP
NC
TESTEN
XTALIN
XTALOUT
DCTRIN
AUDCLOUT
DCTRIO1
DCTRIO0
ADRSEL
STANDBYQ
RESETQ
I2SDAOU2
I2SDAIN2
DVSS
DVSUP
I2SDAIN1
I2SDAOU1
I2SWS
I2SCL
I2CDA
I2CCL
CS208
3U3
CS209
100N0
CS206
10U0
CS207
100N0
TP1
TP2
CS202
10N0
CS210
10U0
CS211
10U0
CS201
220N0
+5VA
CS203
1N0
CS204
10N0
CS205
100N0
DACMC
DACMSUB
DACMSURR
DCTROUT1
DCTROUT0
ADRSEL
I2CCL
I2CDA
DACC2L
RESETQ
DACAR
DACAL
DACMR
DACML
BS001
1
32
Left
Right
Subwoofer
Center
Mute L/R
Surround
Mute Surr.
Headph L
Headph R
BS003
BA001
AMDP

AUDIO SIGNAL MODULE DOLBY PROLOGIC - MODULE AUDIO DOLBY PROLOGIC - DOLBY PROLOGIC VERSTÄRKER - MODULO AUDIO DOLBY PROLOGIC - ESQUEMA DEL MÕDULO AMPLIFICADOR DE AUDIO

COMPONENT SIDE - CÖTE COMPOSANTS - BESTÜCKUNGSSEITE -LATO COMPONENTI - LADO COMPONENTES


1
BA006
1
BA007
CA008
CA003
1
BA001
JA063
JA064
JA065
CA103
BA002
1
LA001
RA080
CA074
CA080
SA001
CA004
JA074
1
BA004
DA085
CA120
RA120
BA005
JA051
CA007
CA013
JA062
JA066
JA087
JA076
CA119
RA083
RA008
RA003
RA004
CA001
CA002
RA007
JA067
JA068
JA069
RA105
JA073
JA075
BA008
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RA029
CA092
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CA094
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JA083
JA084
JA088
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RA092
RA036
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CA005
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CA034
CA118
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CA093
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JA054
JA055
JA061
JA086
JA072
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RA037
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JA060
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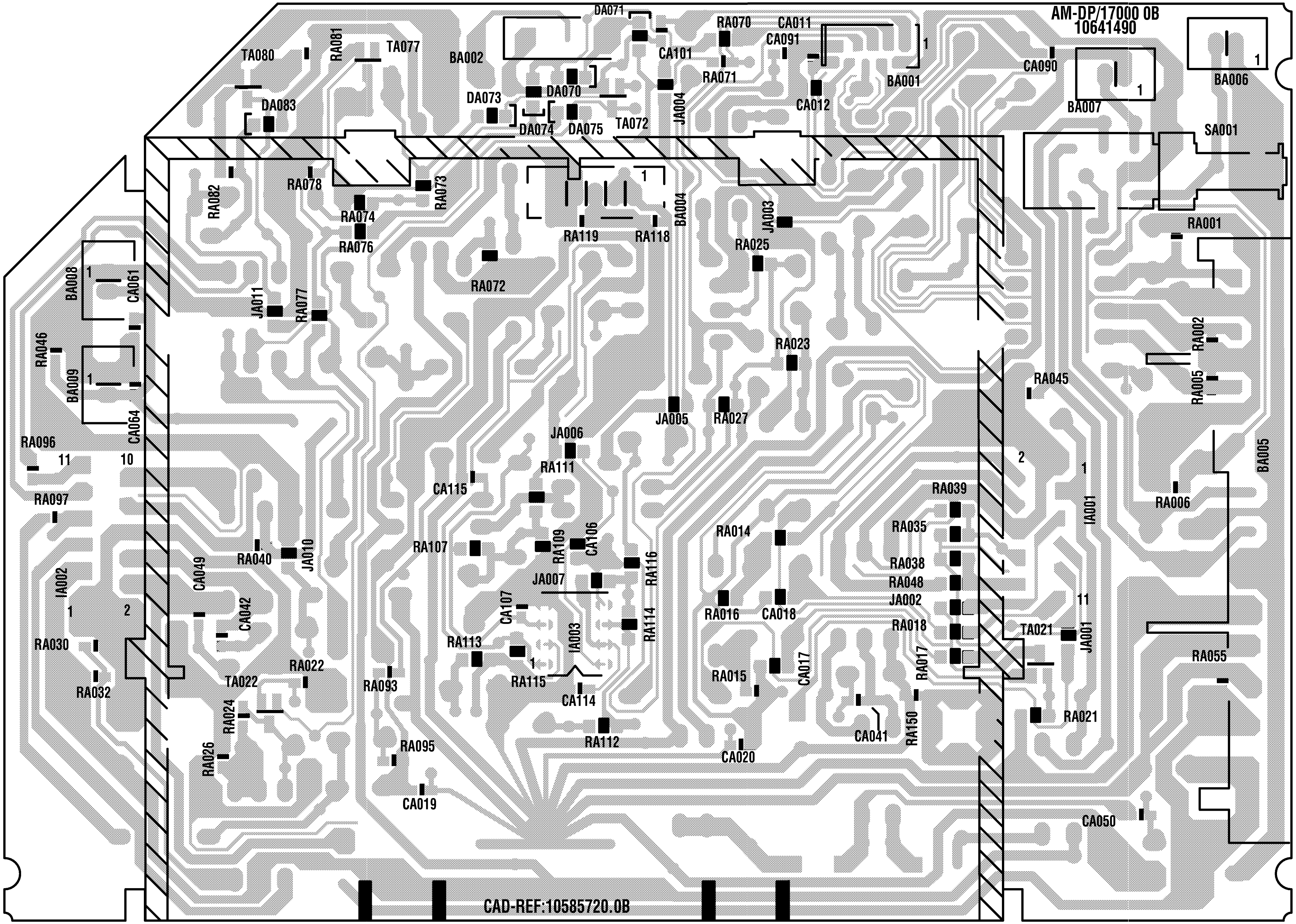
RA056
CA097
JA081
RA050
CA043
CA054
CA031
CA032
CA053
DA024
RA028
JA085
JA050

AUDIO SIGNAL MODULE DOLBY PROLOGIC - MODULE AUDIO DOLBY PROLOGIC - DOLBY PROLOGIC VERSTÄRKER - MODULO AUDIO DOLBY PROLOGIC - ESQUEMA DEL MÕDULO AMPLIFICADOR DE AUDIO

SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS



AM-DP/17000 0B
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CA091
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RA081
TA077
BA002
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RA071
BA001
CA090
BA007
1
BA006
1
DA083
DA073
DA070
DA074
DA075
TA072
JA004
CA012
SA001
RA078
RA082
RA074
RA076
RA073
1
RA119
RA118
BA004
JA003
RA025
RA001
BA008
1
CA061
JA011
RA077
RA072
RA046
BA009
1
CA064
RA023
RA002
RA005
RA045
RA096
11
10
JA005
RA027
JA006
RA111
CA115
2
1
IA001
BA005
RA006
RA097
RA039
RA035
RA038
RA048
JA002
RA018
RA014
RA040
JA010
RA107
RA109
CA106
RA116
JA007
IA002
1
2
CA049
CA042
CA107
IA003
RA114
RA016
CA018
11
TA021
JA001
RA030
RA032
RA113
RA115
1
RA015
CA017
RA017
RA055
TA022
RA022
RA093
CA114
RA024
RA112
CA041
RA150
RA021
RA026
RA095
CA020
CA019
CA050
CAD-REF:10585720.0B

POWER SUPPLY - ALIMENTATION - NETZTEIL - ALIMENTAZIONE - ALIMENTACIÓN

Note :
During measurements in the power supply unit
- Use the primary power unit ground (PGND).

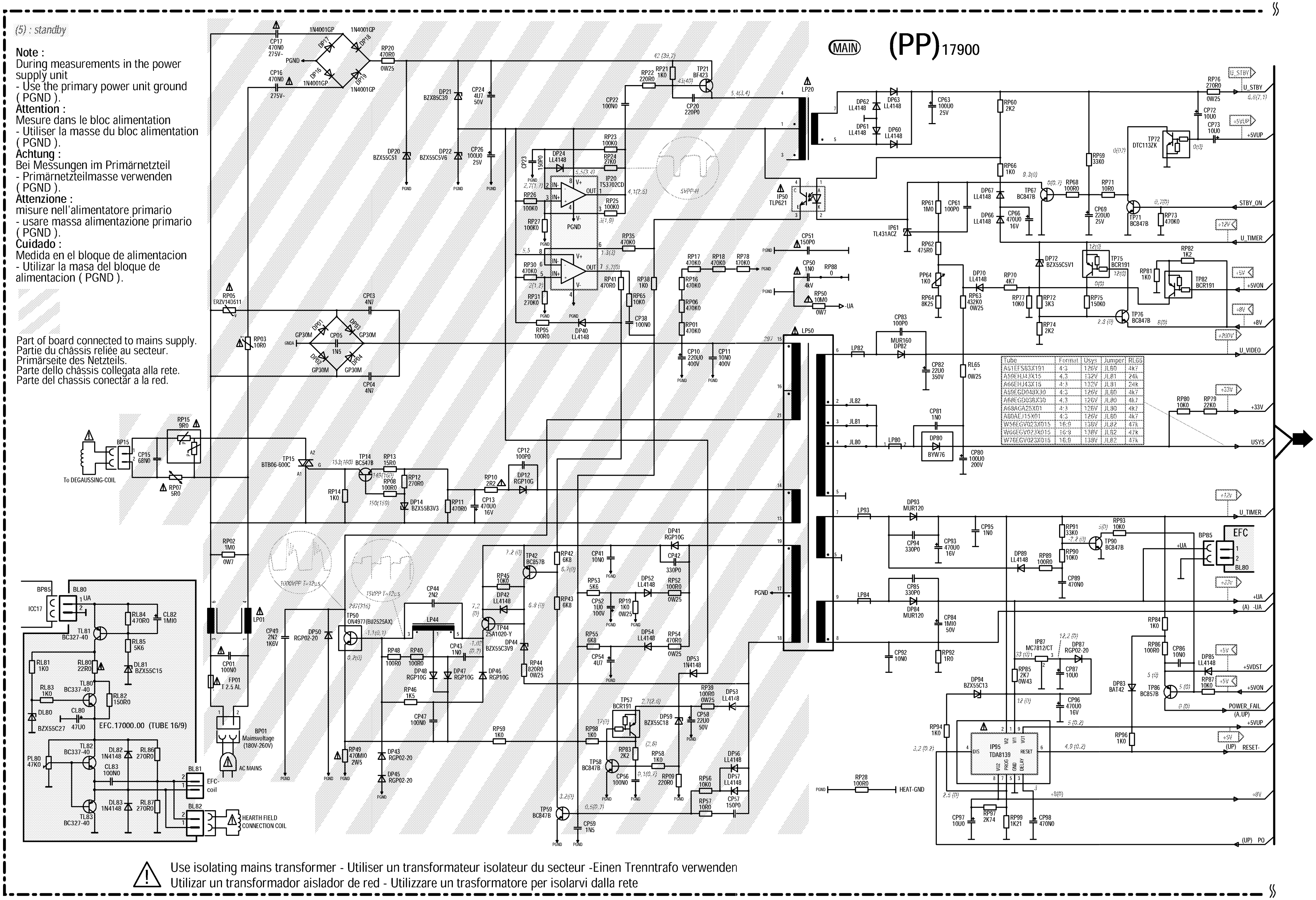
Attention :
Mesure dans le bloc alimentation
- Utiliser la masse du bloc alimentation (PGND).

Achtung :
Bei Messungen im Primärnetzteil
- Primärnetzteilmasse verwenden (PGND).

Attenzione :
misure nell'alimentatore primario
- usare massa alimentazione primario (PGND).

Cuidado :
Medida en el bloque de alimentacion
- Utilizar la masa del bloque de alimentacion (PGND).

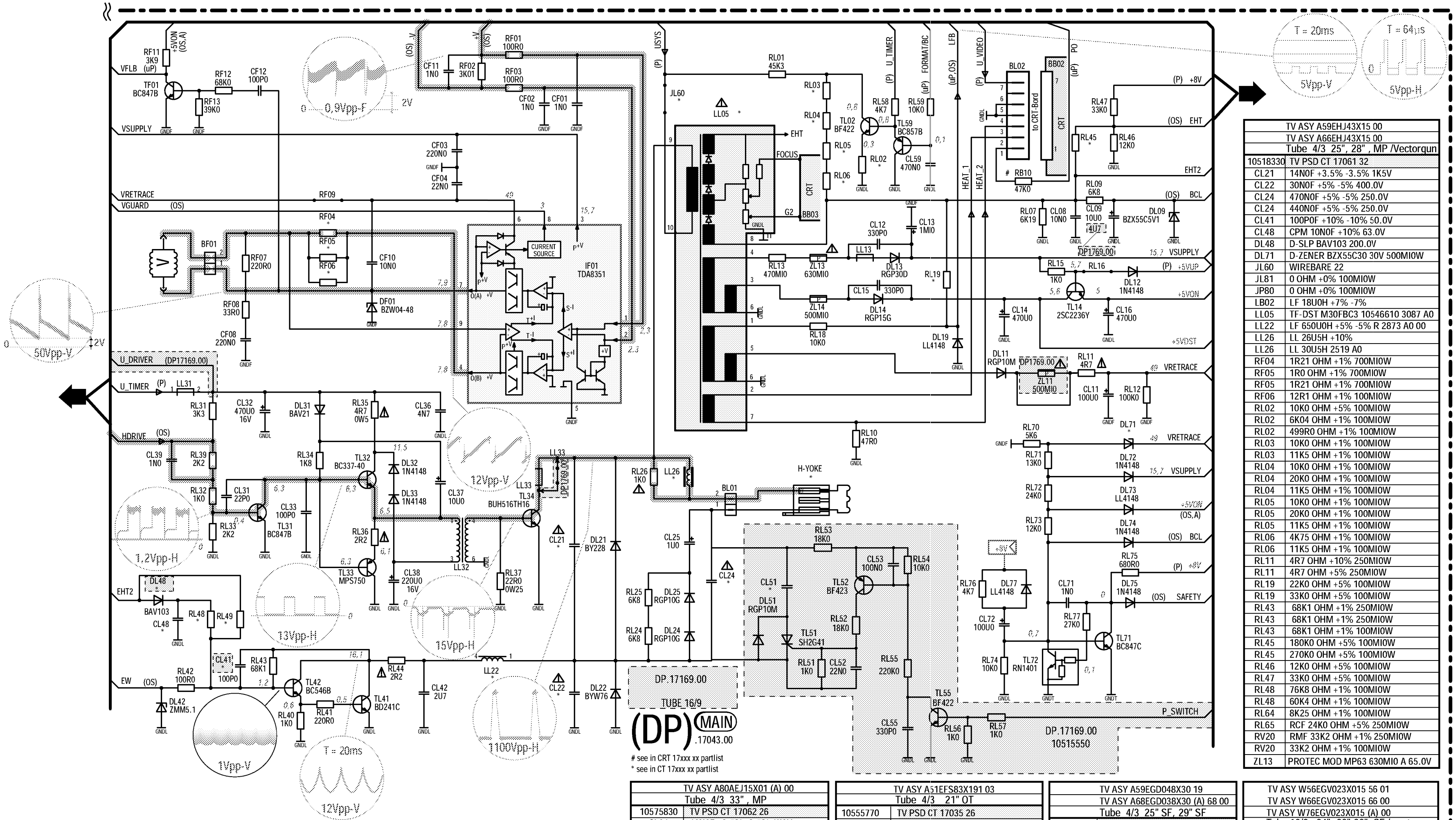
Part of board connected to mains supply.
Partie du châssis reliée au secteur.
Primärseite des Netzteils.
Parte dello chássis collegata alla rete.
Parte del chassis conectar a la red.


(5) : standby
MAIN
(PP)17900
To DEGAUSSING-COIL
EFC.17000.00 (TUBE 16/9)
EFC-coil
HEARTH FIELD CONNECTION COIL
AC MAINS
Mainsvoltage (180V-260V)
HEAT-GND
U_STBY
+5VUP
STBY_ON
U_TIMER
+5VON
+8V
U_VIDEO
+33V
USYS
EFC
+UA
(A) -UA
+5VDST
POWER_FAIL (A.UP)
RESET-
(UP) PO
IP95 TDA8139
IP87 MC7812/CT
IP50 TLP621
IP20 TS3702CD
IP61 TL431ACZ
TP50 ON4977(BU2525AX)
TP15 BTB06-600C
LP50
LP20
LP44
LP01

Tube	Format	Usys	Jumper	RL65
A51EFS83X191	4:3	126V	JL80	4k7
A59EHJ43X15	4.3	132V	JL81	24k
A66EHJ43X15	4:3	132V	JL81	24k
A59EGD048X30	4:3	126V	JL80	4k7
A68EGD038X30	4:3	126V	JL80	4k7
A68AGA25X01	4:3	126V	JL80	4k7
A80AEJ15X01	4:3	126V	JL80	4k7
W56EGV023X015	16:9	138V	JL82	47k
W66EGV023X015	16:9	138V	JL82	47k
W76EGV023X015	16:9	138V	JL82	47k

⚠ Use isolating mains transformer - Utiliser un transformateur isolateur du secteur -Einen Trenntrafo verwenden
Utilizar un transformador aislador de red - Utilizzare un trasformatore per isolarvi dalla rete

SCANNING - BALAYAGE - ABLENKUNG - BARRIDO - SCANSIONE


VFLB (uP)
VSUPPLY
VRETRACE
VGUARD (OS)
U_DRIVER (DP17169.00)
U_TIMER (P)
HDRIVE (OS)
EHT2
EW (OS)
+5VON (OS,A)
USYS
U_TIMER
FORMAT/BC
LFB
U_VIDEO
(P) +8V
(OS) EHT
EHT2
(OS) BCL
VSUPPLY
(P) +5VUP
+5VON
+5VDST
VRETRACE
VSUPPLY
(OS,A)
(OS) BCL
(P) +8V
(OS) SAFETY
P_SWITCH
IF01 TDA8351
CURRENT SOURCE
H-YOKE
CRT
to CRT-Bord
EHT
FOCUS
G2
TL31 BC847B
TL32 BC337-40
TL33 MPS750
TL34 BUH516TH16
TL41 BD241C
TL42 BC546B
TL51 SH2G41
TL52 BF423
TL55 BF422
TL71 BC847C
TL72 RN1401
TL14 2SC2236Y
TL02 BF422
TL59 BC857B
TF01 BC847B
0,9Vpp-F
50Vpp-V
1,2Vpp-H
13Vpp-H
15Vpp-H
12Vpp-V
1Vpp-V
1100Vpp-H
T = 20ms
T = 64µs
5Vpp-V
5Vpp-H
DP.17169.00
TUBE 16/9
DP.17169.00
10515550
(DP) MAIN .17043.00

see in CRT 17xxx xx partlist
* see in CT 17xxx xx partlist

	TV ASY A59EHJ43X15 00 TV ASY A66EHJ43X15 00 Tube 4/3 25", 28" , MP /Vectorgun
10518330	TV PSD CT 17061 32
CL21	14N0F +3.5% -3.5% 1K5V
CL22	30N0F +5% -5% 400.0V
CL24	470N0F +5% -5% 250.0V
CL24	440N0F +5% -5% 250.0V
CL41	100P0F +10% -10% 50.0V
CL48	CPM 10N0F +10% 63.0V
DL48	D-SLP BAV103 200.0V
DL71	D-ZENER BZX55C30 30V 500MI0W
JL60	WIREBARE 22
JL81	0 OHM +0% 100MI0W
JP80	0 OHM +0% 100MI0W
LB02	LF 18U0H +7% -7%
LL05	TF-DST M30FBC3 10546610 3087 A0
LL22	LF 650U0H +5% -5% R 2873 A0 00
LL26	LL 26U5H +10%
LL26	LL 30U5H 2519 A0
RF04	1R21 OHM +1% 700MI0W
RF05	1R0 OHM +1% 700MI0W
RF05	1R21 OHM +1% 700MI0W
RF06	12R1 OHM +1% 100MI0W
RL02	10K0 OHM +5% 100MI0W
RL02	6K04 OHM +1% 100MI0W
RL02	499R0 OHM +1% 100MI0W
RL03	10K0 OHM +1% 100MI0W
RL03	11K5 OHM +1% 100MI0W
RL04	10K0 OHM +1% 100MI0W
RL04	20K0 OHM +1% 100MI0W
RL04	11K5 OHM +1% 100MI0W
RL05	10K0 OHM +1% 100MI0W
RL05	20K0 OHM +1% 100MI0W
RL05	11K5 OHM +1% 100MI0W
RL06	4K75 OHM +1% 100MI0W
RL06	11K5 OHM +1% 100MI0W
RL11	4R7 OHM +10% 250MI0W
RL11	4R7 OHM +5% 250MI0W
RL19	22K0 OHM +5% 100MI0W
RL19	33K0 OHM +5% 100MI0W
RL43	68K1 OHM +1% 250MI0W
RL43	68K1 OHM +1% 250MI0W
RL43	68K1 OHM +1% 100MI0W
RL45	180K0 OHM +5% 100MI0W
RL45	270K0 OHM +5% 100MI0W
RL46	12K0 OHM +5% 100MI0W
RL47	33K0 OHM +5% 100MI0W
RL48	76K8 OHM +1% 100MI0W
RL48	60K4 OHM +1% 100MI0W
RL64	8K25 OHM +1% 100MI0W
RL65	RCF 24K0 OHM +5% 250MI0W
RV20	RMF 33K2 OHM +1% 250MI0W
RV20	33K2 OHM +1% 100MI0W
ZL13	PROTEC MOD MP63 630MI0 A 65.0V

⚠ Indicates critical safety components, and identical components should be used for replacement. Only then can the operational safety be garanteed.

Le remplacement des éléments de sécurité (repérés avec le symbole ⚠) par des composants non homologués selon la Norme CEI 65 entraine la non-conformité de l'appareil.
Dans ce cas, la responsabilité du fabricant n'est plus engagée.

Wenn Sicherheitsteile (mit dem Symbol ⚠ gekennzeichnet) durch nicht normgerechte Teile ersetzt werden, erlischt die Haftung des Herstellers.

La sostituzione degli elementi di sicurezza (contrassegnati con il segno ⚠) con componenti non omologati secondo la norma CEI 65 comporta la non conformitá dell'apparecchio.
In tal caso é "esclusa la responsabilitá" del costruttore.

La subtitución de elementos de seguridad (marcados con el simbolo ⚠) por componentes no homologados segun la norma CEI 65, provoca la no conformidad del aparato.
En ese caso, el fabricante cesa de ser responsable.

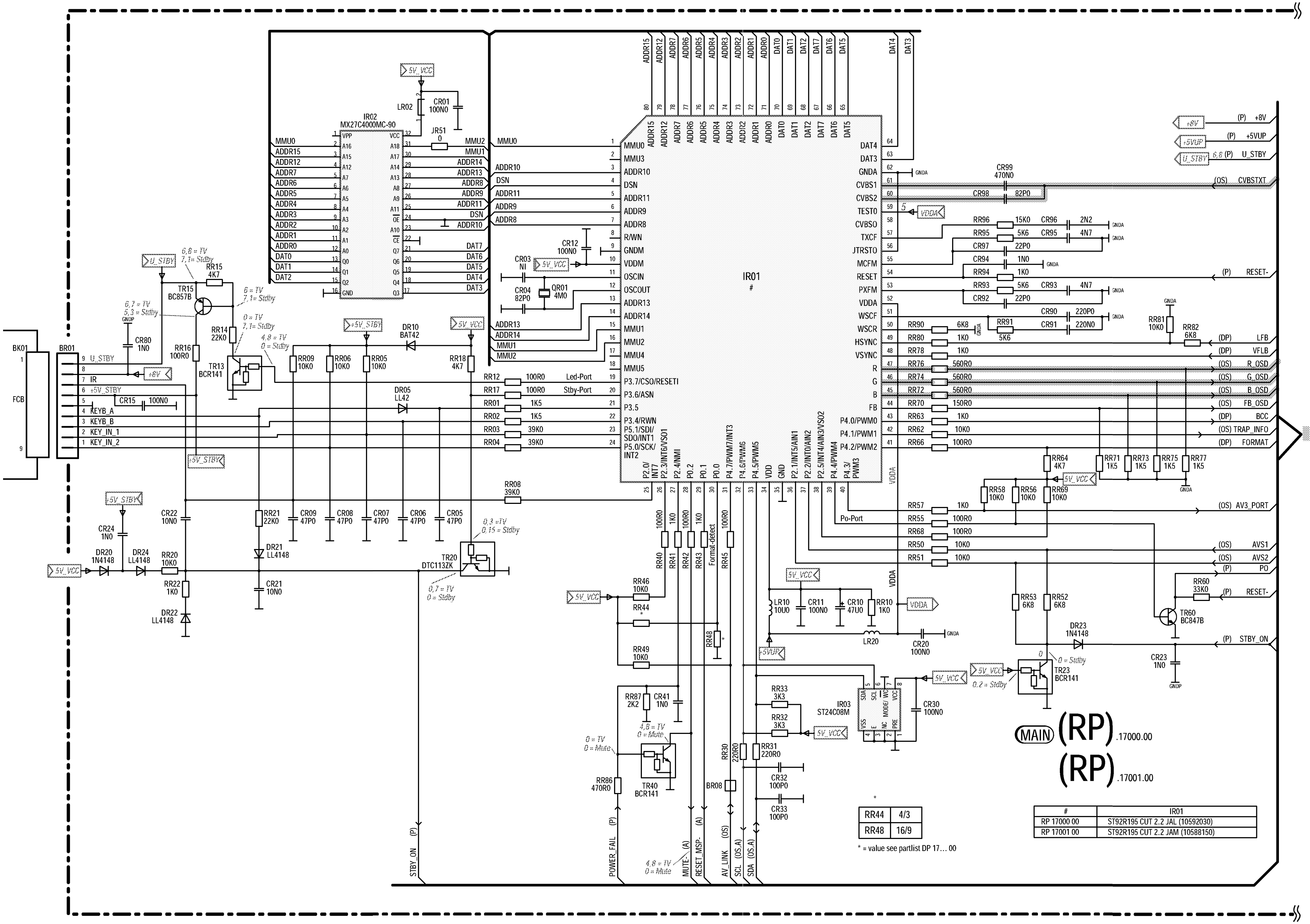
	TV ASY A80AEJ15X01 (A) 00 Tube 4/3 33" , MP
10575830	TV PSD CT 17062 26
CL21	16N2F +3.5% -3.5% 1K6V
CL22	30N0F +5% -5% 400.0V
CL24	560N0F +5% -5% 250.0V
CL41	100P0F +10% -10% 50.0V
CL48	10N0F +10% 63.0V
DL48	D-SLP BAV103 200.0V
DL71	D-ZENER BZX55C30 30V 500MI0W
JL60	WIREBARE 22
JL80	0 OHM +0% 100MI0W
LB02	LF 32U0H +4% -4%
LL05	TF-DST TDS29 TBD 11
LL22	LF 650U0H +5% -5% R 2873 A0 00
LL26	LL 26U5H +10%
RF05	1R21 OHM +1% 700MI0W
RF06	10R0 OHM +1% 100MI0W
RL02	6K04 OHM +1% 100MI0W
RL03	4K75 OHM +1% 100MI0W
RL04	4K75 OHM +1% 100MI0W
RL05	4K75 OHM +1% 100MI0W
RL06	6K81 OHM +1% 100MI0W
RL19	13K0 OHM +5% 100MI0W
RL45	150K0 OHM +5% 100MI0W
RL48	76K8 OHM +1% 100MI0W
RL49	560K0 OHM +5% 100MI0W
RL65	RCF 4K7 OHM +5% 250MI0W
RV20	RMF 23K7 OHM +1% 250MI0W

	TV ASY A51EFS83X191 03 Tube 4/3 21" OT
10555770	TV PSD CT 17035 26
CL21	8N3F +3.5% -3.5% 1K6V
CL22	33N0F +5% -5% 1K0V
CL24	440N0F +5% -5% 250.0V
CL41	1N0F +10% -10% 50.0V
DL71	D-ZENER BZX55C24 24V 500MI0W
JL60	WIREBARE 22
JL80	0 OHM +0% 100MI0W
LB02	LF 18U0H +7% -7%
LL05	TF-DST M30FBC3 10555640 3087 A0
LL22	LF 650U0H +5% -5% R 2873 A0 00
LL26	LL 85U0H 2519 A0
RF05	1R5 OHM +1% 700MI0W
RF06	10R0 OHM +1% 100MI0W
RL02	6K04 OHM +1% 100MI0W
RL03	10K0 OHM +1% 100MI0W
RL04	10K0 OHM +1% 100MI0W
RL05	10K0 OHM +1% 100MI0W
RL06	3K32 OHM +1% 100MI0W
RL45	110K0 OHM +5% 100MI0W
RL49	60K4 OHM +1% 100MI0W
RL65	4K7 OHM +5% 250MI0W
RV20	23K7 OHM +1% 250MI0W

	TV ASY A59EGD048X30 19 TV ASY A68EGD038X30 (A) 68 00 Tube 4/3 25" SF, 29" SF
10515520	TV PSD CT 17071 26
CL21	16N2F +3.5% -3.5% 1K6V
CL22	30N0F +5% -5% 400.0V
CL24	510N0F +5% -5% 250.0V
CL41	100P0F +10% -10% 50.0V
CL48	10N0F +10% 63.0V
DL48	D-SLP BAV103 200.0V
DL71	D-ZENER BZX55C30 30V 500MI0W
JL60	WIREBARE 22
JL80	0 OHM +0% 100MI0W
LB02	LF 32U0H +4% -4%
LL05	TF-DST TDS29 TBD 13
LL22	LF 650U0H +5% -5%
LL26	LL 26U5H +10%
RF05	RMF 1R0 OHM +1% 700MI0W
RL02	6K8 OHM +5% 100MI0W
RL03	4K75 OHM +1% 100MI0W
RL04	4K75 OHM +1% 100MI0W
RL05	4K75 OHM +1% 100MI0W
RL06	4K75 OHM +1% 100MI0W
RL19	15K0 OHM +5% 100MI0W
RL45	180K0 OHM +5% 100MI0W
RL48	100K0 OHM +5% 100MI0W
RL49	300K0 OHM +5% 100MI0W
RL65	4K7 OHM +5% 250MI0W
RV20	33K2 OHM +1% 250MI0W

	TV ASY W56EGV023X015 56 01 TV ASY W66EGV023X015 66 00 TV ASY W76EGV023X015 (A) 00 Tube 16/9 24", 28",32", SF / vectorgun
10515530	TV PSD CT 17083 38
CL21	15N5F +3.5% -3.5% 1K6V
CL22	27N0F +5% -5% 400.0V
CL24	440N0F +5% -5% 250.0V
CL41	100P0F +10% -10% 50.0V
CL48	100N0F +5% 63.0V
CL51	290N0F +5% -5% 250.0V
DL48	D-SLP BAV103 200.0V
DL71	D-ZENER BZX55C24 24V 500MI0W
JL60	WIREBARE 22
JL82	0 OHM +0% 100MI0W
LB02	LF 32U0H +4% -4%
LL05	TF-DST TDS29 15314460 10
LL22	LF 650U0H +5% -5%
LL26	LL 30U5H 2519 A0
RF05	1R21 OHM +1% 700MI0W
RL02	4K99 OHM +1% 100MI0W
RL03	6K49 OHM +1% 100MI0W
RL04	6K49 OHM +1% 100MI0W
RL05	6K49 OHM +1% 100MI0W
RL06	2K37 OHM +1% 100MI0W
RL19	13K0 OHM +5% 100MI0W
RL45	390K0 OHM +5% 100MI0W
RL48	220K0 OHM +5% 100MI0W
RL49	180K0 OHM +5% 100MI0W
RL65	47K0 OHM +5% 250MI0W
RV20	100K0 OHM +1% 250MI0W

CONTROL MICROPROCESSOR - MICROPROCESSEUR DE COMMANDE - MIKROPROZESSOR - MICROPROCESSORE DEI COMANDI - MICROPROCESADOR DE LOS MANDOS

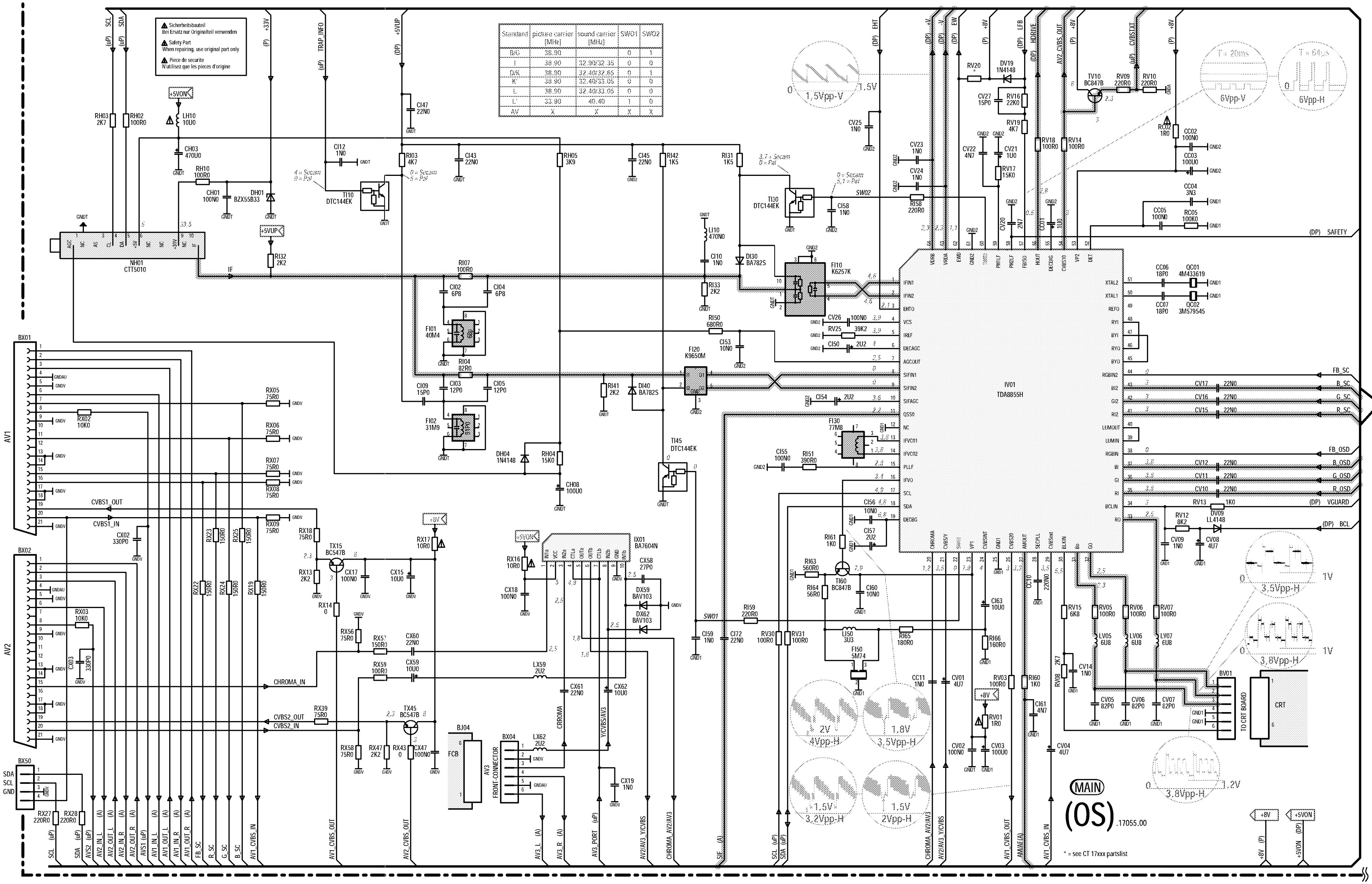

IR01
IR02
MX27C4000MC-90
IR03
ST24C08M
BK01
BR01
FCB
MAIN (RP).17000.00
(RP).17001.00
U_STBY
IR
KEYB_A
KEYB_B
KEY_IN_1
KEY_IN_2
5V_VCC
+5V_STBY
+8V
+5VUP
VDDA
TR15 BC857B
TR13 BCR141
TR20 DTC113ZK
TR23 BCR141
TR40 BCR141
TR60 BC847B
QR01 4M0
DR10 BAT42
DR05 LL42
DR20 1N4148
DR24 LL4148
DR21 LL4148
DR22 LL4148
DR23 1N4148
LR02
LR10 10U0
LR20
BR08
Led-Port
Stby-Port
Po-Port
Format-detect
(P) +8V
(P) +5VUP
(P) U_STBY
(OS) CVBSTXT
(P) RESET-
(DP) LFB
(DP) VFLB
(OS) R_OSD
(OS) G_OSD
(OS) B_OSD
(OS) FB_OSD
(DP) BCC
(OS) TRAP_INFO
(DP) FORMAT
(OS) AV3_PORT
(OS) AVS1
(OS) AVS2
(P) PO
(P) RESET-
(P) STBY_ON
STBY_ON (P)
POWER_FAIL (P)
MUTE- (A)
RESET_MSP- (A)
AV_LINK (OS)
SCL (OS,A)
SDA (OS,A)
6,8 = TV
7,1 = Stdby
0 = TV
0 = Mute
4,8 = TV
0 = Mute
0,3 = TV
0,15 = Stdby
0,7 = TV
0 = Stdby
0,2 = Stdby

RR44	4/3
RR48	16/9

* = value see partlist DP 17… 00

#	IR01
RP 17000 00	ST92R195 CUT 2.2 JAL (10592030)
RP 17001 00	ST92R195 CUT 2.2 JAM (10588150)

RF/FI/ SCART INTERFACE/VIDEO SIGNAL PROCESSING -HF/FI INTERFACE PERITELEVISION/TRAITEMENT LUMINANCE CHROMINANCE - HF/ZF/ SCART INTERFACE/VIDEO SIGNALVERARBEITUNG - RF/FI /PRESA PERITEL/ELABORAZIONE VIDEO - RF/FI /EUROCONECTOR / TRATAMENTO VIDEO


NH01
CTT5010
IF
BX01
AV1
BX02
AV2
BX50
SDA
SCL
GND
CVBS1_OUT
CVBS1_IN
CHROMA_IN
CVBS2_OUT
CVBS2_IN
RX02 10K0
RX03 10K0
RX05 75R0
RX06 75R0
RX07 75R0
RX08 75R0
RX09 75R0
CX02 330P0
CX03 330P0
RX27 220R0
RX28 220R0
RH03 2K7
RH02 100R0
LH10 10U0
CH03 470U0
RH10 100R0
CH01 100N0
DH01 BZX55B33
+5VON
+5VUP
RI32 2K2
CI12 1N0
CI47 22N0
RI03 4K7
CI43 22N0
TI10 DTC144EK
4 = Secam
0 = Pal
RH05 3K9
CI45 22N0
RI42 1K5
RI31 1K5
3,7 = Secam
0 = Pal
TI30 DTC144EK
CI58 1N0
SW02
RI07 100R0
CI02 6P8
CI04 6P8
FI01 40M4
RI04 82R0
CI03 12P0
CI05 12P0
CI09 15P0
FI02 31M9
DH04 1N4148
RH04 15K0
CH08 100U0
LI10 470N0
CI10 1N0
RI33 2K2
DI30 BA782S
FI10 K6257K
RI50 680R0
CI53 10N0
FI20 K9650M
RI41 2K2
DI40 BA782S
TI45 DTC144EK
IV01
TDA8855H
FI30 77M8
CI55 100N0
RI51 390R0
CI56 10N0
CI57 2U2
RI61 1K0
RI63 560R0
TI60 BC847B
RI64 56R0
CI60 10N0
RI59 220R0
SW01
CI59 1N0
CI72 22N0
RV30 100R0
RV31 100R0
LI50 3U3
FI50 5M74
RI65 180R0
CI63 10U0
RI66 160R0
TX15 BC547B
RX18 75R0
RX13 2K2
CX17 100N0
CX15 10U0
RX17 10R0
RX14 0
RX56 75R0
RX57 150R0
CX60 22N0
RX59 100R0
CX59 10U0
LX59 2U2
RX39 75R0
TX45 BC547B
RX58 75R0
RX47 2K2
RX43 0
CX47 100N0
BJ04
FCB
BX04
AV3 FRONT-CONNECTOR
LX62 2U2
RX16 10R0
CX18 100N0
IX01 BA7604N
CX58 27P0
DX59 BAV103
DX62 BAV103
CX61 22N0
CX62 10U0
CX19 1N0
RX22 150R0
RX23 150R0
RX24 150R0
RX25 150R0
RX19 150R0
RV20
DV19 1N4148
CV27 15P0
RV16 22K0
RV19 4K7
CV22 4N7
CV21 1U0
RV17 15K0
RV18 100R0
RV14 100R0
TV10 BC847B
RV09 220R0
RV10 220R0
CV25 1N0
CV23 1N0
CV24 1N0
RI58 220R0
CV26 100N0
RV25 39K2
CI50 2U2
CI54 2U2
CC02 100N0
CC03 100U0
CC04 3N3
CC05 100N0
RC05 100K0
RC02 1R0
CC06 18P0
QC01 4M433619
CC07 18P0
QC02 3M579545
CV17 22N0
CV16 22N0
CV15 22N0
CV12 22N0
CV11 22N0
CV10 22N0
RV13 1K0
RV12 8K2
DV09 LL4148
CV09 1N0
CV08 4U7
FB_SC
R_SC
G_SC
B_SC
FB_OSD
B_OSD
G_OSD
R_OSD
VGUARD
BCL
SAFETY
RV15 6K8
RV05 100R0
RV06 100R0
RV07 100R0
LV05 6U8
LV06 6U8
LV07 6U8
CV14 1N0
RV08 2K7
CV05 82P0
CV06 82P0
CV07 82P0
BV01
TO CRT BOARD
CRT
CC11 1N0
CV01 4U7
RV03 100R0
RI60 1K0
RV01 1R0
CI61 4N7
CV02 100N0
CV03 100U0
CV04 4U7
CC10 220N0
1,5Vpp-V
1,5V
6Vpp-V
6Vpp-H
T = 20ms
T = 64µs
3,5Vpp-H
3,8Vpp-H
1V
2V
4Vpp-H
1,8V
3,5Vpp-H
1,5V
3,2Vpp-H
1,5V
2Vpp-H
3,8Vpp-H
1,2V
MAIN
(OS)
.17055.00
* = see CT 17xxx partslist
EHT
EW
+8V
LFB
HDRIVE
AV2_CVBS_OUT
CVBSTXT
TRAP_INFO
+33V
SCL
SDA
AVS2
AV2_IN_L
AV2_OUT_L
AV2_IN_R
AV2_OUT_R
AVS1
AV1_IN_L
AV1_OUT_L
AV1_IN_R
AV1_OUT_R
FB_SC
R_SC
G_SC
B_SC
AV1_CVBS_IN
AV1_CVBS_OUT
AV2_CVBS_OUT
AV3_L
AV3_R
AV3_PORT
AV2/AV3_Y/CVBS
CHROMA_AV2/AV3
SIF
CHROMA_AV2/AV3
AV2/AV3_Y/CVBS
AV1_CVBS_OUT
AM/AF
AV1_CVBS_IN
+5VON

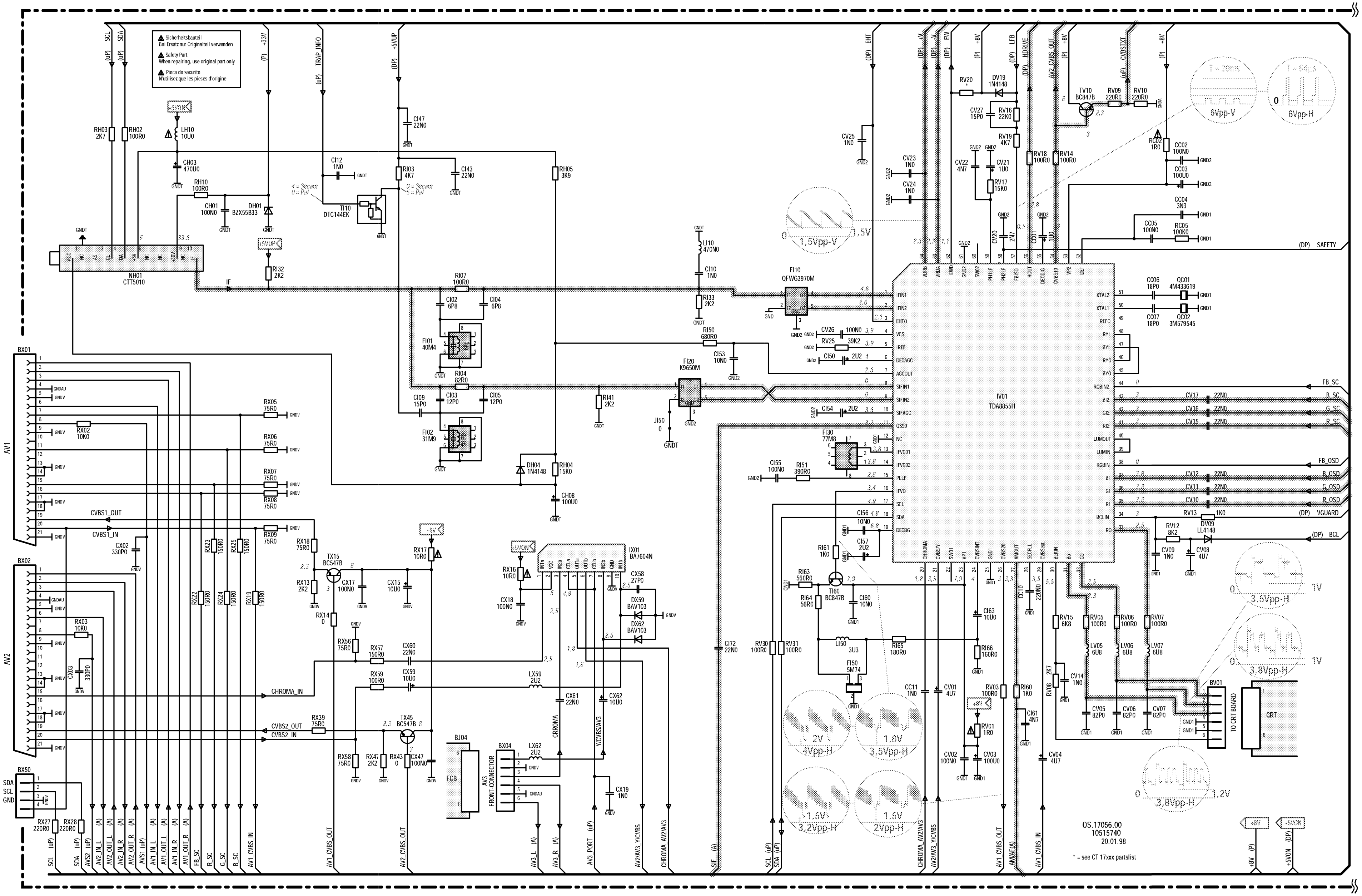
Standard	picture carrier [MHz]	sound carrier [MHz]	SWO1	SWO2
B/G	38.90		0	1
I	38.90	32.90/32.35	0	0
D/K	38.90	32.40/32.65	0	1
K'	38.90	32.40/33.05	0	0
L	38.90	32.40/33.05	0	0
L'	33.90	40.40	1	0
AV	X	X	X	X

⚠ Sicherheitsbauteil
Bei Ersatz nur Originalteil verwenden

⚠ Safety Part
When repairing, use original part only

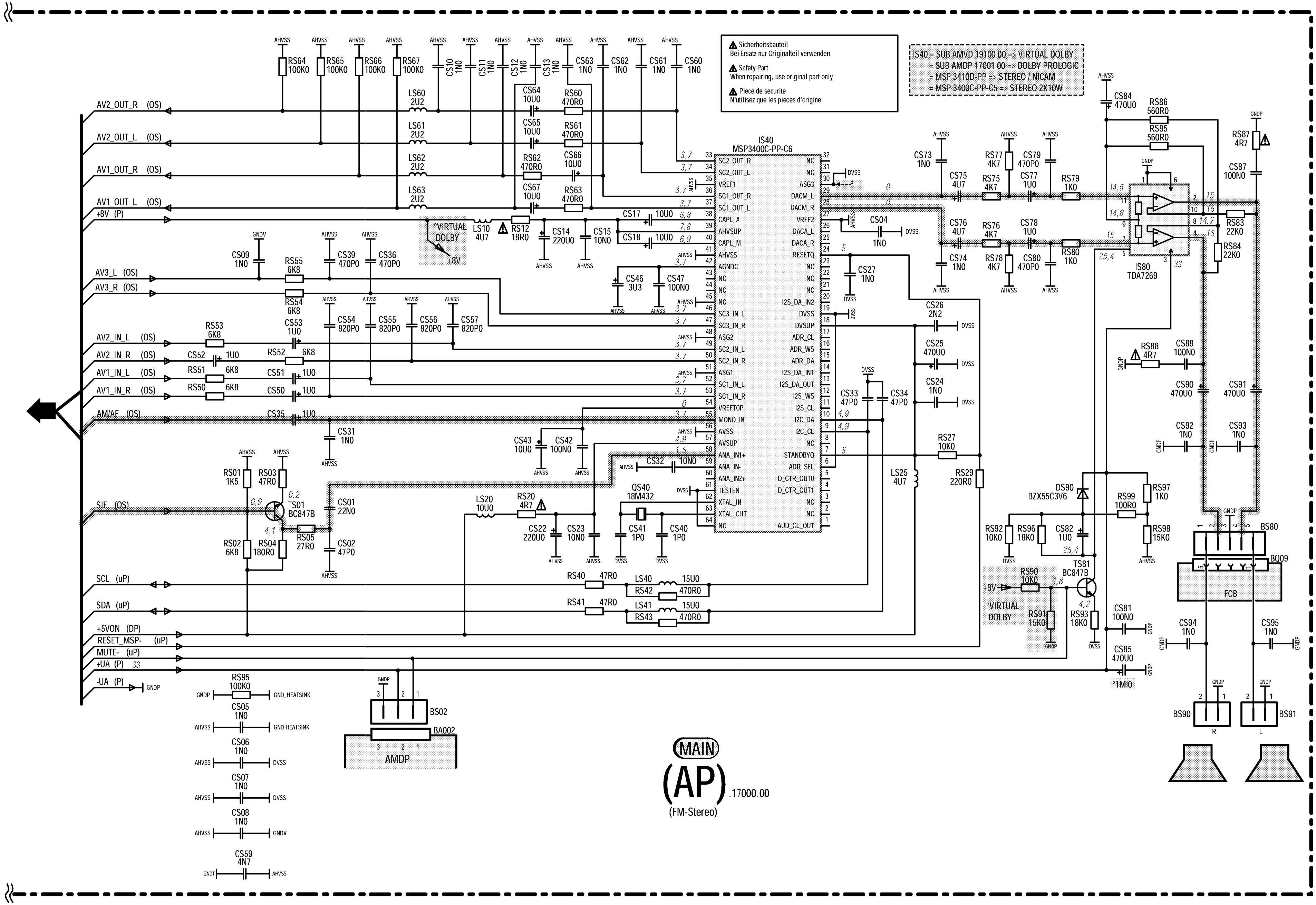
⚠ Piece de securite
N'utilisez que les pieces d'origine

RF/FI/ SCART INTERFACE/VIDEO SIGNAL PROCESSING -HF/FI INTERFACE PERITELEVISION/TRAITEMENT LUMINANCE CHROMINANCE - HF/ZF/ SCART INTERFACE/VIDEO SIGNALVERARBEITUNG - RF/FI /PRESA PERITEL/ELABORAZIONE VIDEO - RF/FI /EUROCONECTOR/TRATAMENTO VIDEO



Sicherheitsbauteil
Bei Ersatz nur Originalteil verwenden
Safety Part
When repairing, use original part only
Piece de securite
N'utilisez que les pieces d'origine
NH01
CTT5010
IF
FI10
QFWG3970M
FI20
K9650M
FI01
40M4
FI02
31M9
FI30
77M8
FI50
5M74
IV01
TDA8855H
IX01
BA7604N
TI10
DTC144EK
TX15
BC547B
TX45
BC547B
TI60
BC847B
TV10
BC847B
BX01
BX02
BX04
BX50
BJ04
FCB
AV1
AV2
AV3
FRONT-CONNECTOR
BV01
TO CRT BOARD
CRT
CHROMA_IN
CVBS1_OUT
CVBS1_IN
CVBS2_OUT
CVBS2_IN
CHROMA
Y/CVBS/AV3
FB_SC
B_SC
G_SC
R_SC
FB_OSD
B_OSD
G_OSD
R_OSD
(DP) SAFETY
(DP) VGUARD
(DP) BCL
SCL
SDA
GND
AV1_CVBS_OUT
AV2_CVBS_OUT
AV3_L
AV3_R
AV3_PORT
AV2/AV3_Y/CVBS
CHROMA_AV2/AV3
SIF
AV1_CVBS_IN
+8V
+5VON
1,5Vpp-V
1,5V
6Vpp-V
6Vpp-H
T = 20ms
T = 64µs
3,5Vpp-H
3,8Vpp-H
4Vpp-H
3,5Vpp-H
3,2Vpp-H
2Vpp-H
1V
1,2V
2V
1,8V
1,5V
OS.17056.00
10515740
20.01.98
* = see CT 17xxx partslist

AMPLIFIER SCHEMATIC DIAGRAM - SCHEMA DE L'AMPLIFICATEUR - SCHALTBILD AUDIO-SIGNALVERABEITUNG - SCHEMA DELL' AMPLIFICATORE
ESQUEMA DEL AMPLIFICADOR
(STEREO)



⚠ Sicherheitsbauteil
Bei Ersatz nur Originalteil verwenden

⚠ Safety Part
When repairing, use original part only

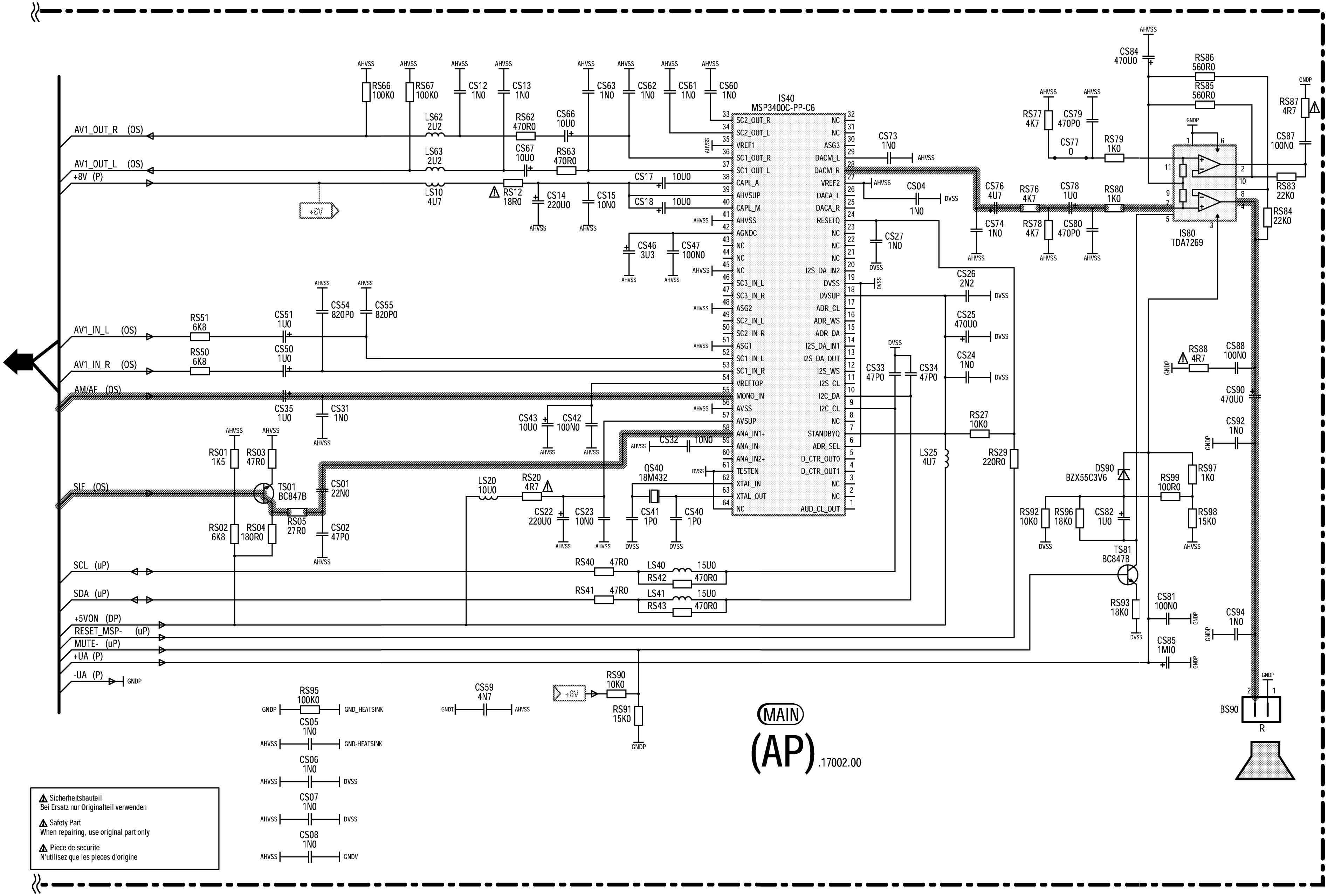
⚠ Piece de securite
N'utilisez que les pieces d'origine

IS40 = SUB AMVD 19100 00 => VIRTUAL DOLBY
= SUB AMDP 17001 00 => DOLBY PROLOGIC
= MSP 3410D-PP => STEREO / NICAM
= MSP 3400C-PP-C5 => STEREO 2X10W

AV2_OUT_R (OS)
AV2_OUT_L (OS)
AV1_OUT_R (OS)
AV1_OUT_L (OS)
+8V (P)
AV3_L (OS)
AV3_R (OS)
AV2_IN_L (OS)
AV2_IN_R (OS)
AV1_IN_L (OS)
AV1_IN_R (OS)
AM/AF (OS)
SIF (OS)
SCL (uP)
SDA (uP)
+5VON (DP)
RESET_MSP- (uP)
MUTE- (uP)
+UA (P) 33
-UA (P)
GNDP
RS64 100K0
RS65 100K0
RS66 100K0
RS67 100K0
CS10 1N0
CS11 1N0
CS12 1N0
CS13 1N0
CS63 1N0
CS62 1N0
CS61 1N0
CS60 1N0
LS60 2U2
LS61 2U2
LS62 2U2
LS63 2U2
CS64 10U0
RS60 470R0
CS65 10U0
RS61 470R0
RS62 470R0
CS66 10U0
CS67 10U0
RS63 470R0
°VIRTUAL DOLBY
+8V
LS10 4U7
RS12 18R0
CS14 220U0
CS15 10N0
CS17 10U0
CS18 10U0
CS09 1N0
RS55 6K8
CS39 470P0
CS36 470P0
RS54 6K8
CS46 3U3
CS47 100N0
RS53 6K8
CS53 1U0
CS54 820P0
CS55 820P0
CS56 820P0
CS57 820P0
CS52 1U0
RS52 6K8
RS51 6K8
CS51 1U0
RS50 6K8
CS50 1U0
CS35 1U0
CS31 1N0
CS43 10U0
CS42 100N0
RS01 1K5
RS03 47R0
TS01 BC847B
CS01 22N0
RS02 6K8
RS04 180R0
RS05 27R0
CS02 47P0
LS20 10U0
RS20 4R7
CS22 220U0
CS23 10N0
CS32 10N0
QS40 18M432
CS41 1P0
CS40 1P0
RS40 47R0
LS40 15U0
RS42 470R0
RS41 47R0
LS41 15U0
RS43 470R0
IS40 MSP3400C-PP-C6
SC2_OUT_R
SC2_OUT_L
VREF1
SC1_OUT_R
SC1_OUT_L
CAPL_A
AHVSUP
CAPL_M
AHVSS
AGNDC
NC
SC3_IN_L
SC3_IN_R
ASG2
SC2_IN_L
SC2_IN_R
ASG1
SC1_IN_L
SC1_IN_R
VREFTOP
MONO_IN
AVSS
AVSUP
ANA_IN1+
ANA_IN-
ANA_IN2+
TESTEN
XTAL_IN
XTAL_OUT
ASG3
DACM_L
DACM_R
VREF2
DACA_L
DACA_R
RESETQ
I2S_DA_IN2
DVSS
DVSUP
ADR_CL
ADR_WS
ADR_DA
I2S_DA_IN1
I2S_DA_OUT
I2S_WS
I2S_CL
I2C_DA
I2C_CL
STANDBYQ
ADR_SEL
D_CTR_OUT0
D_CTR_OUT1
AUD_CL_OUT
CS04 1N0
CS27 1N0
CS26 2N2
CS25 470U0
CS24 1N0
CS33 47P0
CS34 47P0
RS27 10K0
LS25 4U7
RS29 220R0
CS73 1N0
CS75 4U7
RS77 4K7
RS75 4K7
CS79 470P0
CS77 1U0
RS79 1K0
CS76 4U7
RS76 4K7
CS78 1U0
RS80 1K0
CS74 1N0
RS78 4K7
CS80 470P0
CS84 470U0
RS86 560R0
RS85 560R0
IS80 TDA7269
RS87 4R7
CS87 100N0
RS83 22K0
RS84 22K0
RS88 4R7
CS88 100N0
CS90 470U0
CS91 470U0
CS92 1N0
CS93 1N0
DS90 BZX55C3V6
RS99 100R0
RS97 1K0
RS92 10K0
RS96 18K0
CS82 1U0
RS98 15K0
TS81 BC847B
RS90 10K0
RS91 15K0
RS93 18K0
CS81 100N0
CS85 470U0
°1MI0
CS94 1N0
CS95 1N0
BS80
BQ09
FCB
BS90
BS91
R
L
RS95 100K0
GND_HEATSINK
CS05 1N0
GND-HEATSINK
CS06 1N0
CS07 1N0
CS08 1N0
CS59 4N7
BS02
BA002
AMDP
AHVSS
DVSS
GNDV
GNDP
MAIN
(AP) .17000.00
(FM-Stereo)

AMPLIFIER SCHEMATIC DIAGRAM - SCHEMA DE L'AMPLIFICATEUR - SCHALTBILD AUDIO-SIGNALVERABEITUNG - SCHEMA DELL' AMPLIFICATORE - ESQUEMA DEL AMPLIFICADOR

(MONO)

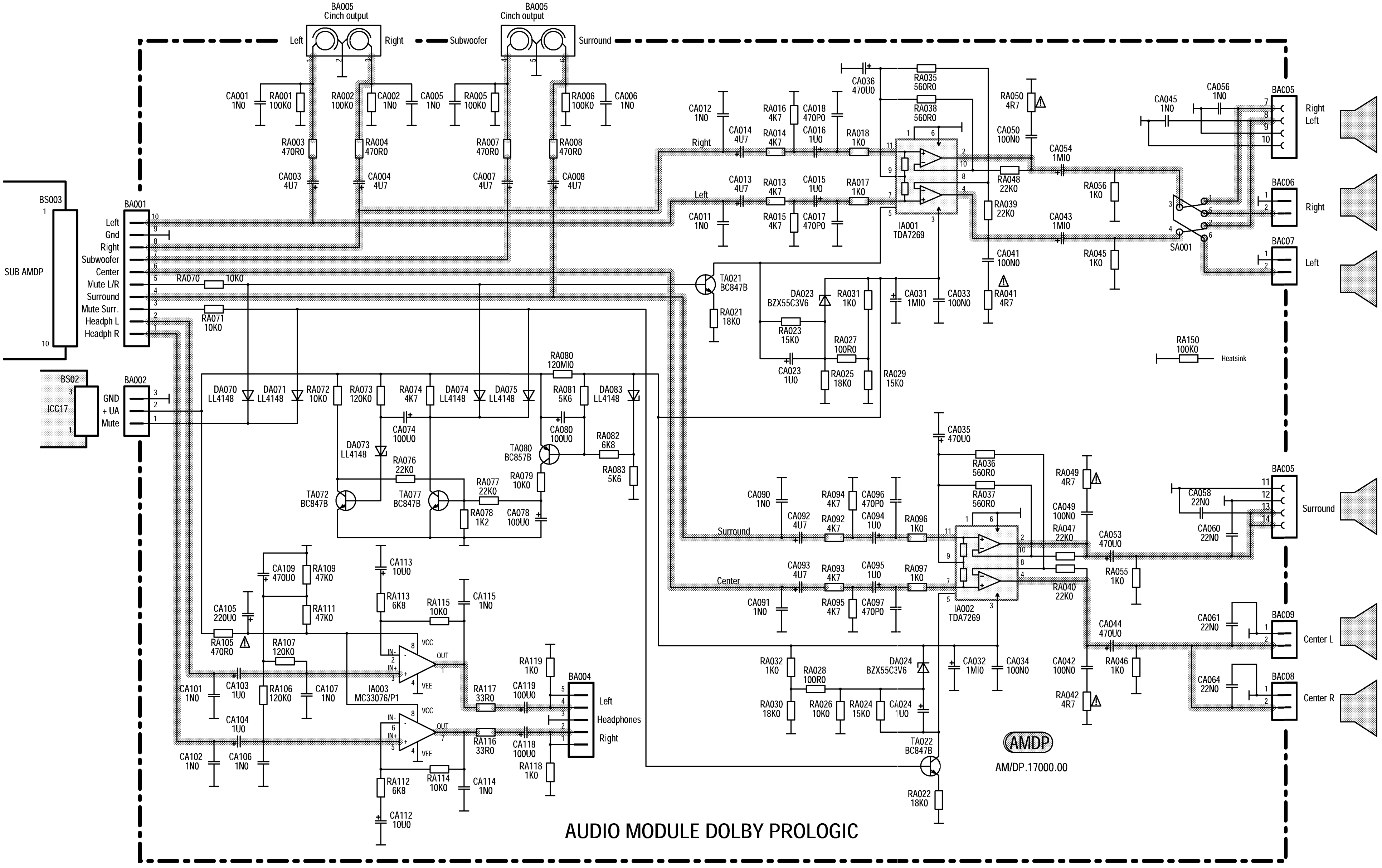

AV1_OUT_R (OS)
AV1_OUT_L (OS)
+8V (P)
AV1_IN_L (OS)
AV1_IN_R (OS)
AM/AF (OS)
SIF (OS)
SCL (uP)
SDA (uP)
+5VON (DP)
RESET_MSP- (uP)
MUTE- (uP)
+UA (P)
-UA (P)
IS40
MSP3400C-PP-C6
SC2_OUT_R
SC2_OUT_L
VREF1
SC1_OUT_R
SC1_OUT_L
CAPL_A
AHVSUP
CAPL_M
AHVSS
AGNDC
NC
SC3_IN_L
SC3_IN_R
ASG2
SC2_IN_L
SC2_IN_R
ASG1
SC1_IN_L
SC1_IN_R
VREFTOP
MONO_IN
AVSS
AVSUP
ANA_IN1+
ANA_IN-
ANA_IN2+
TESTEN
XTAL_IN
XTAL_OUT
ASG3
DACM_L
DACM_R
VREF2
DACA_L
DACA_R
RESETQ
I2S_DA_IN2
DVSS
DVSUP
ADR_CL
ADR_WS
ADR_DA
I2S_DA_IN1
I2S_DA_OUT
I2S_WS
I2S_CL
I2C_DA
I2C_CL
STANDBYQ
ADR_SEL
D_CTR_OUT0
D_CTR_OUT1
AUD_CL_OUT
RS66 100K0
RS67 100K0
CS12 1N0
CS13 1N0
CS63 1N0
CS62 1N0
CS61 1N0
CS60 1N0
LS62 2U2
LS63 2U2
LS10 4U7
RS62 470R0
CS66 10U0
CS67 10U0
RS63 470R0
RS12 18R0
CS14 220U0
CS15 10N0
CS17 10U0
CS18 10U0
CS46 3U3
CS47 100N0
CS54 820P0
CS55 820P0
RS51 6K8
RS50 6K8
CS51 1U0
CS50 1U0
CS35 1U0
CS31 1N0
CS43 10U0
CS42 100N0
CS32 10N0
QS40 18M432
CS41 1P0
CS40 1P0
LS20 10U0
RS20 4R7
CS22 220U0
CS23 10N0
RS01 1K5
RS03 47R0
TS01 BC847B
CS01 22N0
RS02 6K8
RS04 180R0
RS05 27R0
CS02 47P0
RS40 47R0
LS40 15U0
RS42 470R0
RS41 47R0
LS41 15U0
RS43 470R0
RS90 10K0
RS91 15K0
RS95 100K0
CS05 1N0
CS06 1N0
CS07 1N0
CS08 1N0
CS59 4N7
CS73 1N0
CS04 1N0
CS27 1N0
CS26 2N2
CS25 470U0
CS24 1N0
CS33 47P0
CS34 47P0
RS27 10K0
RS29 220R0
LS25 4U7
CS76 4U7
RS76 4K7
CS78 1U0
RS80 1K0
CS74 1N0
RS78 4K7
CS80 470P0
RS77 4K7
CS79 470P0
CS77 0
RS79 1K0
CS84 470U0
RS86 560R0
RS85 560R0
RS87 4R7
CS87 100N0
RS83 22K0
RS84 22K0
IS80 TDA7269
RS88 4R7
CS88 100N0
CS90 470U0
CS92 1N0
DS90 BZX55C3V6
RS99 100R0
RS97 1K0
RS98 15K0
RS92 10K0
RS96 18K0
CS82 1U0
TS81 BC847B
RS93 18K0
CS81 100N0
CS85 1MI0
CS94 1N0
BS90
R
AHVSS
DVSS
GNDP
GND_HEATSINK
GNDT
GNDV
+8V
MAIN
(AP)
.17002.00

⚠ Sicherheitsbauteil
Bei Ersatz nur Originalteil verwenden

⚠ Safety Part
When repairing, use original part only

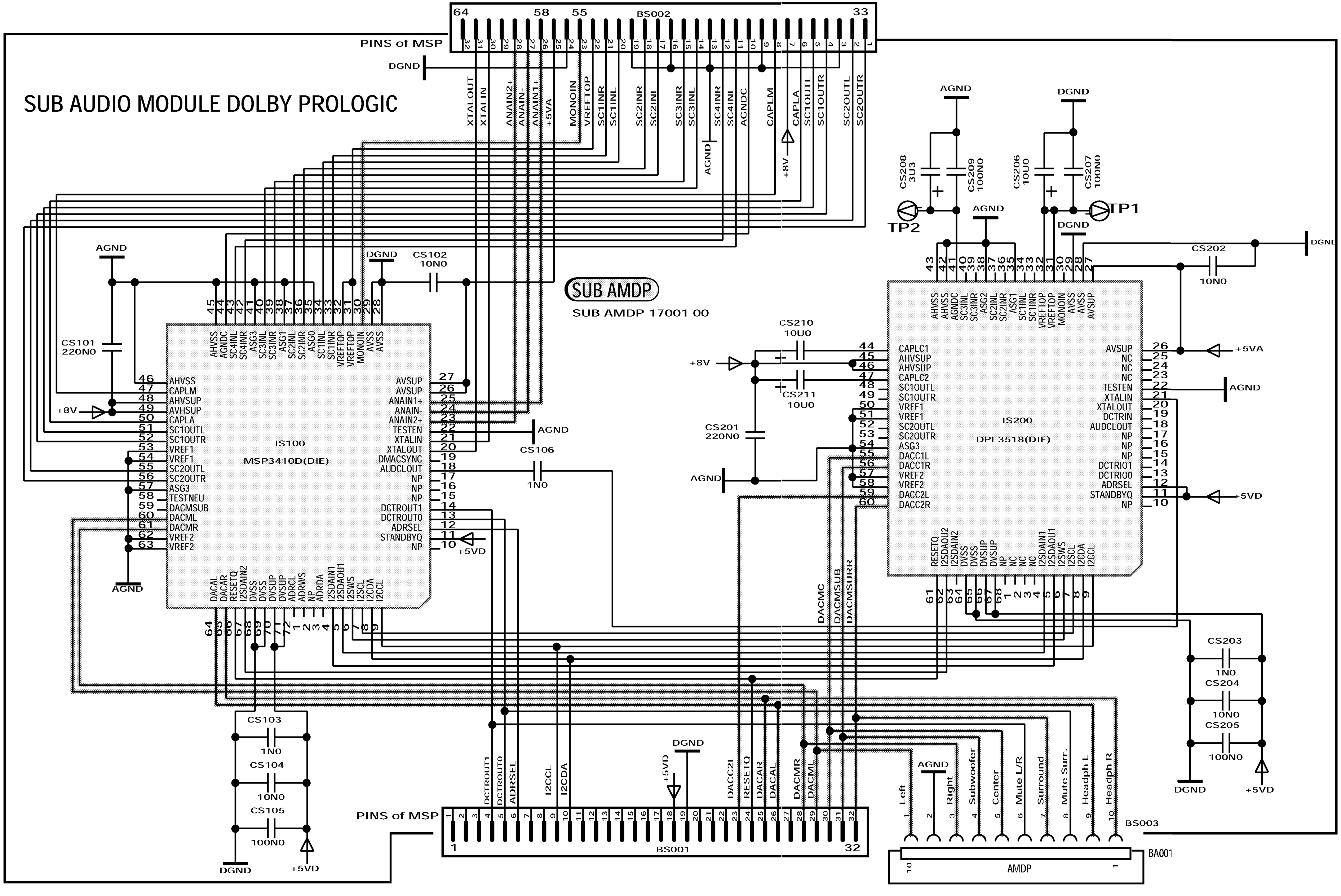
⚠ Piece de securite
N'utilisez que les pieces d'origine

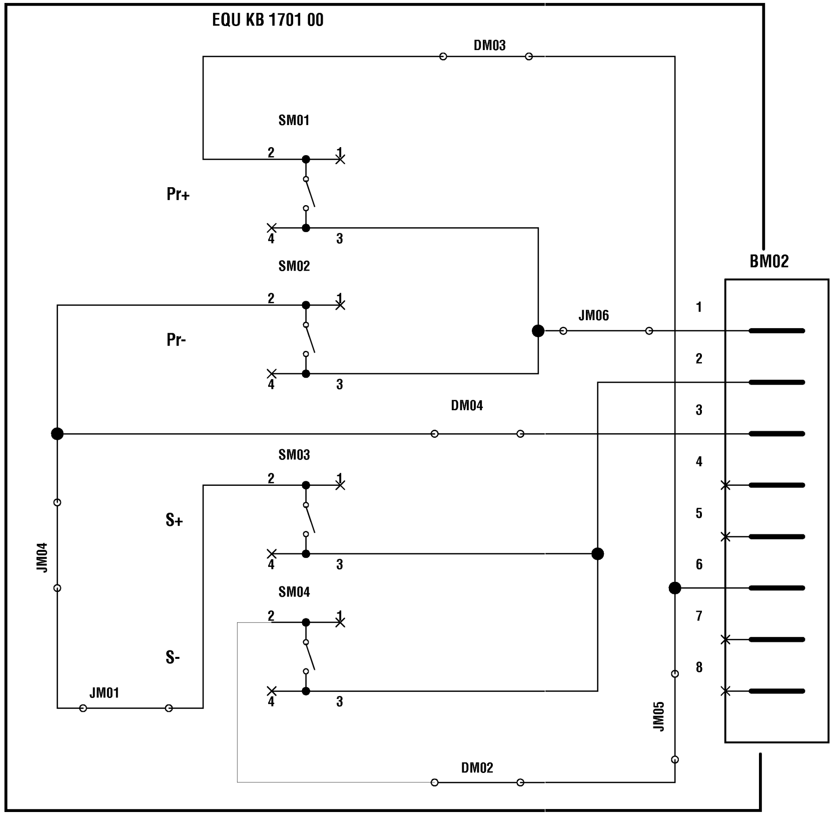
AUDIO SIGNAL MODULE DOLBY PROLOGIC - MODULE AUDIO DOLBY PROLOGIC - DOLBY PROLOGIC VERSTÄRKER - MODULO AUDIO DOLBY PROLOGIC ESQUEMA DEL MÕDULO AMPLIFICADOR DE AUDIO

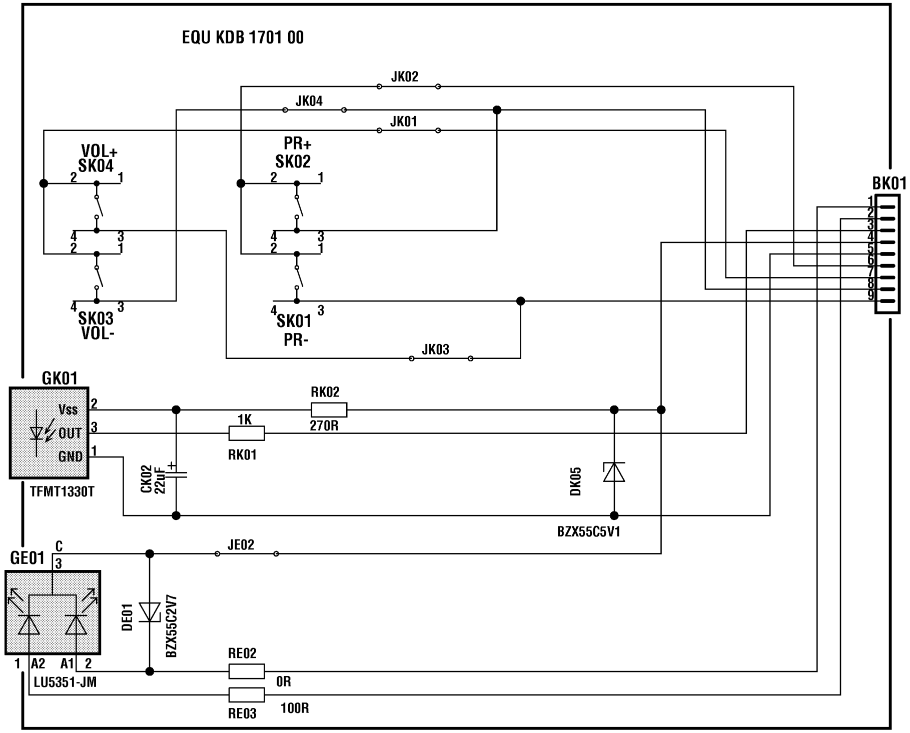


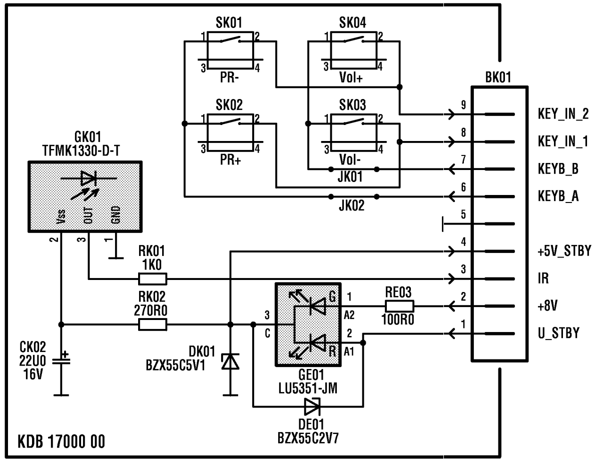
BA005 Cinch output
Left
Right
Subwoofer
BA005 Cinch output
Surround
CA001 1N0
RA001 100K0
RA002 100K0
CA002 1N0
CA005 1N0
RA005 100K0
RA006 100K0
CA006 1N0
RA003 470R0
RA004 470R0
RA007 470R0
RA008 470R0
CA003 4U7
CA004 4U7
CA007 4U7
CA008 4U7
BS003
SUB AMDP
BA001
Left
Gnd
Right
Subwoofer
Center
Mute L/R
Surround
Mute Surr.
Headph L
Headph R
RA070 10K0
RA071 10K0
BS02
ICC17
BA002
GND
+ UA
Mute
CA036 470U0
RA035 560R0
RA038 560R0
CA012 1N0
RA016 4K7
CA018 470P0
CA014 4U7
RA014 4K7
CA016 1U0
RA018 1K0
Right
Left
CA013 4U7
RA013 4K7
CA015 1U0
RA017 1K0
CA011 1N0
RA015 4K7
CA017 470P0
IA001 TDA7269
RA050 4R7
CA050 100N0
RA048 22K0
RA039 22K0
CA054 1MI0
CA043 1MI0
RA056 1K0
RA045 1K0
CA041 100N0
RA041 4R7
CA045 1N0
CA056 1N0
SA001
BA005
Right
Left
BA006
Right
BA007
Left
TA021 BC847B
RA021 18K0
DA023 BZX55C3V6
RA031 1K0
CA031 1MI0
CA033 100N0
RA023 15K0
RA027 100R0
CA023 1U0
RA025 18K0
RA029 15K0
RA150 100K0
Heatsink
RA080 120MI0
DA070 LL4148
DA071 LL4148
RA072 10K0
RA073 120K0
RA074 4K7
DA074 LL4148
DA075 LL4148
RA081 5K6
DA083 LL4148
CA074 100U0
CA080 100U0
DA073 LL4148
RA076 22K0
TA080 BC857B
RA082 6K8
RA083 5K6
TA072 BC847B
TA077 BC847B
RA077 22K0
RA079 10K0
RA078 1K2
CA078 100U0
CA035 470U0
RA036 560R0
RA037 560R0
RA049 4R7
CA049 100N0
RA047 22K0
CA053 470U0
RA055 1K0
RA040 22K0
CA044 470U0
RA046 1K0
CA042 100N0
RA042 4R7
CA058 22N0
CA060 22N0
BA005
Surround
CA061 22N0
BA009
Center L
CA064 22N0
BA008
Center R
CA090 1N0
CA092 4U7
RA094 4K7
RA092 4K7
CA096 470P0
CA094 1U0
RA096 1K0
Surround
Center
CA093 4U7
RA093 4K7
CA095 1U0
RA097 1K0
CA091 1N0
RA095 4K7
CA097 470P0
IA002 TDA7269
RA032 1K0
RA028 100R0
DA024 BZX55C3V6
CA032 1MI0
CA034 100N0
RA030 18K0
RA026 10K0
RA024 15K0
CA024 1U0
TA022 BC847B
RA022 18K0
CA109 470U0
RA109 47K0
CA113 10U0
RA111 47K0
RA113 6K8
RA115 10K0
CA115 1N0
CA105 220U0
RA105 470R0
RA107 120K0
IA003 MC33076/P1
VCC
VEE
OUT
IN-
IN+
RA119 1K0
BA004
Left
Headphones
Right
RA117 33R0
CA119 100U0
CA101 1N0
CA103 1U0
RA106 120K0
CA107 1N0
CA104 1U0
RA116 33R0
CA118 100U0
RA118 1K0
CA102 1N0
CA106 1N0
RA112 6K8
RA114 10K0
CA114 1N0
CA112 10U0
AMDP
AM/DP.17000.00
AUDIO MODULE DOLBY PROLOGIC

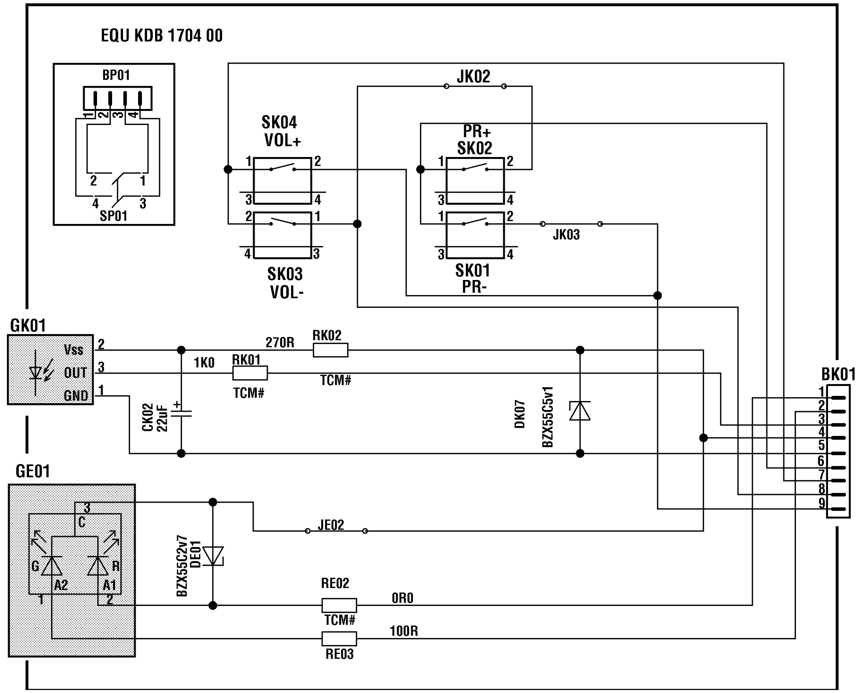
SUB AUDIO SIGNAL MODULE - SUB MODULE AUDIO - AUDIO SIGNAL SUBMODUL - SUB MODULO AUDIO

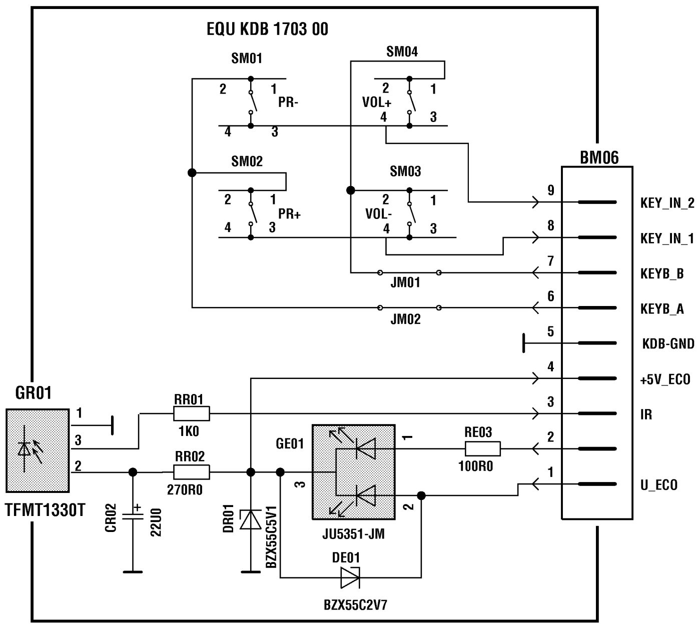

SUB AUDIO MODULE DOLBY PROLOGIC
SUB AMDP
SUB AMDP 17001 00
BS002
PINS of MSP
64
58
55
33
DGND
XTALOUT
XTALIN
ANAIN2+
ANAIN-
ANAIN1+
+5VA
MONOIN
VREFTOP
SC1INR
SC1INL
SC2INR
SC2INL
SC3INR
SC3INL
SC4INR
SC4INL
AGNDC
CAPLM
CAPLA
SC1OUTL
SC1OUTR
SC2OUTL
SC2OUTR
AGND
+8V
IS100
MSP3410D(DIE)
CS101
220N0
CS102
10N0
CS106
1N0
CS103
1N0
CS104
10N0
CS105
100N0
+5VD
AHVSS
CAPLM
AHVSUP
AVHSUP
CAPLA
SC1OUTL
SC1OUTR
VREF1
SC2OUTL
SC2OUTR
ASG3
TESTNEU
DACMSUB
DACML
DACMR
VREF2
AVSUP
ANAIN1+
ANAIN-
ANAIN2+
TESTEN
XTALIN
XTALOUT
DMACSYNC
AUDCLOUT
NP
DCTROUT1
DCTROUT0
ADRSEL
STANDBYQ
DACAL
DACAR
RESETQ
I2SDAIN2
DVSS
DVSUP
ADRCL
ADRWS
ADRDA
I2SDAIN1
I2SDAOU1
I2SWS
I2SCL
I2CDA
I2CCL
IS200
DPL3518(DIE)
CS201
220N0
CS202
10N0
CS203
1N0
CS204
10N0
CS205
100N0
CS206
10U0
CS207
100N0
CS208
3U3
CS209
100N0
CS210
10U0
CS211
10U0
TP1
TP2
+5VA
CAPLC1
CAPLC2
SC3INL
SC3INR
ASG2
SC2INL
SC2INR
ASG1
SC1INL
SC1INR
VREFTOP
MONOIN
AVSS
NC
DCTRIN
DCTRIO1
DCTRIO0
DACC1L
DACC1R
DACC2L
DACC2R
DACMC
DACMSUB
DACMSURR
DACCL2
DACAR
DACAL
DACMR
DACML
I2SDAOU2
BS001
BS003
Left
Right
Subwoofer
Center
Mute L/R
Surround
Mute Surr.
Headph L
Headph R
BA001
AMDP

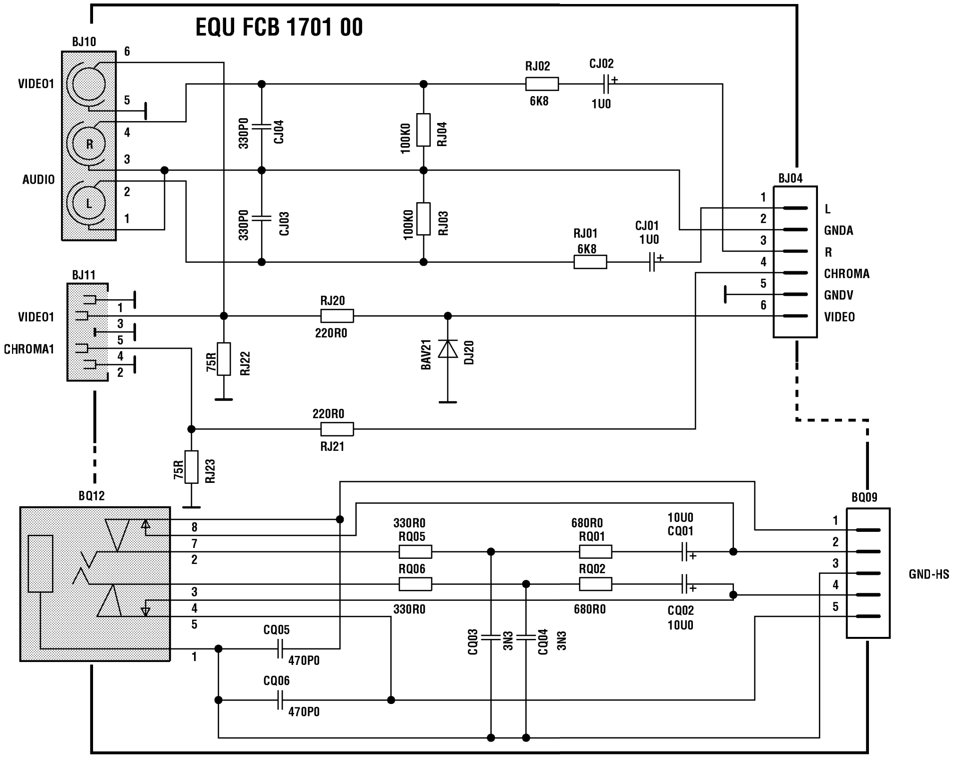

EQU KB 1701 00
DM03
SM01
Pr+
SM02
Pr-
JM06
DM04
SM03
S+
JM04
SM04
S-
JM01
DM02
JM05
BM02
1
2
3
4
5
6
7
8

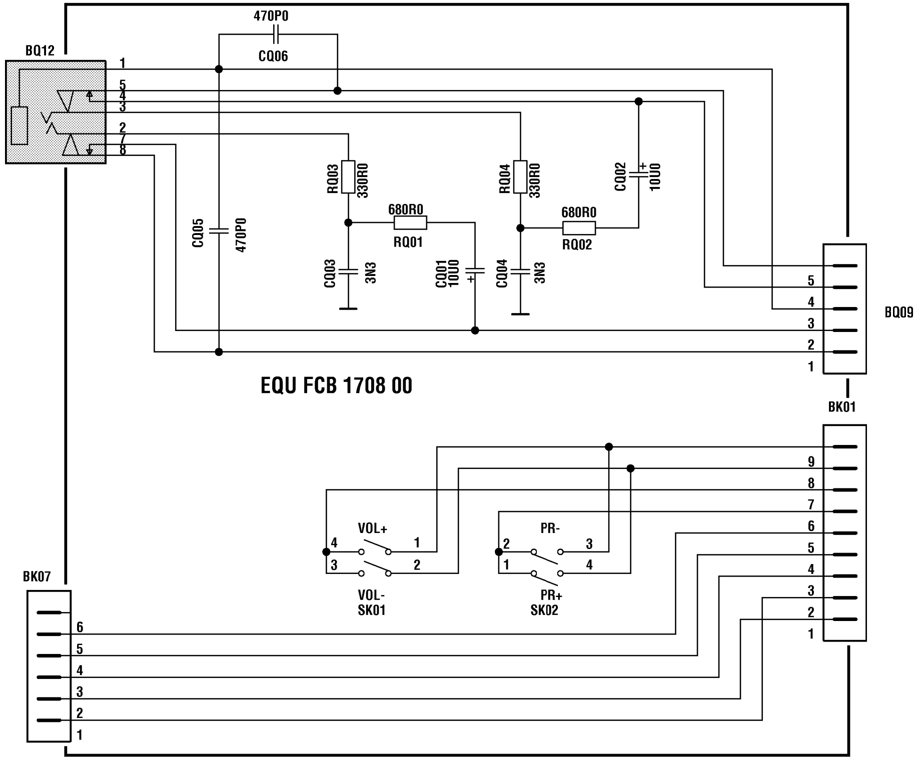

EQU KDB 1701 00
JK02
JK04
JK01
VOL+
SK04
PR+
SK02
SK03
VOL-
SK01
PR-
JK03
BK01
GK01
Vss
OUT
GND
TFMT1330T
CK02
22uF
1K
RK01
RK02
270R
DK05
BZX55C5V1
GE01
C
JE02
DE01
BZX55C2V7
A2
A1
LU5351-JM
RE02
0R
RE03
100R

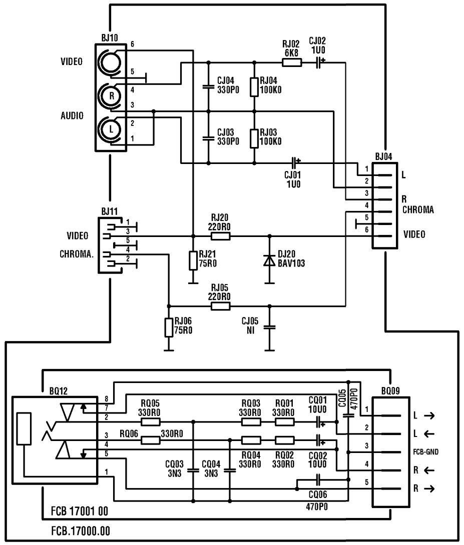

SK01
PR-
SK04
Vol+
SK02
PR+
SK03
Vol-
JK01
JK02
BK01
KEY_IN_2
KEY_IN_1
KEYB_B
KEYB_A
+5V_STBY
IR
+8V
U_STBY
GK01
TFMK1330-D-T
Vss
OUT
GND
RK01
1K0
RK02
270R0
CK02
22U0
16V
DK01
BZX55C5V1
GE01
LU5351-JM
RE03
100R0
DE01
BZX55C2V7
KDB 17000 00

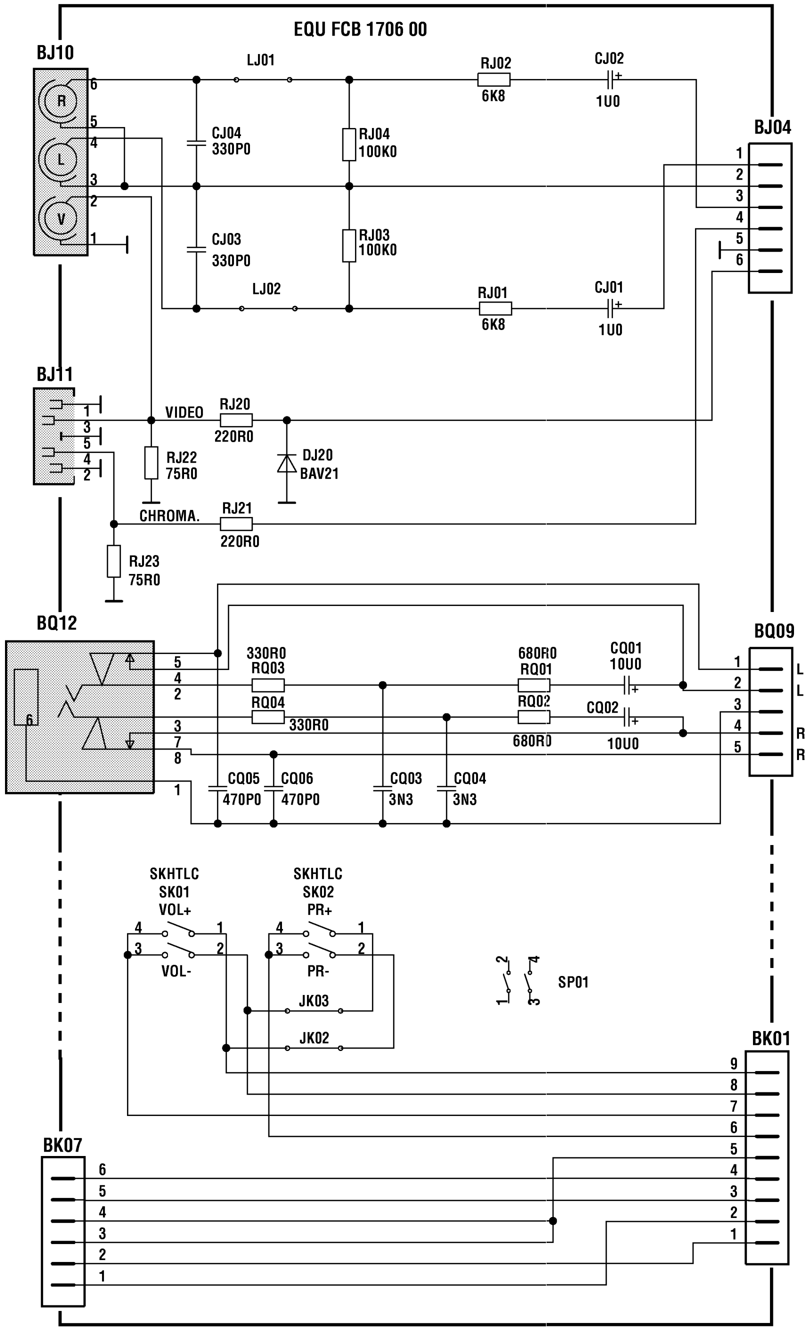

EQU KDB 1704 00
BP01
SP01
JK02
SK04
VOL+
PR+
SK02
JK03
SK03
VOL-
SK01
PR-
GK01
Vss
OUT
GND
270R
RK02
1K0
RK01
TCM#
CK02
22uF
DK07
BZX55C5v1
BK01
GE01
JE02
BZX55C2v7
DE01
RE02
0R0
100R
RE03

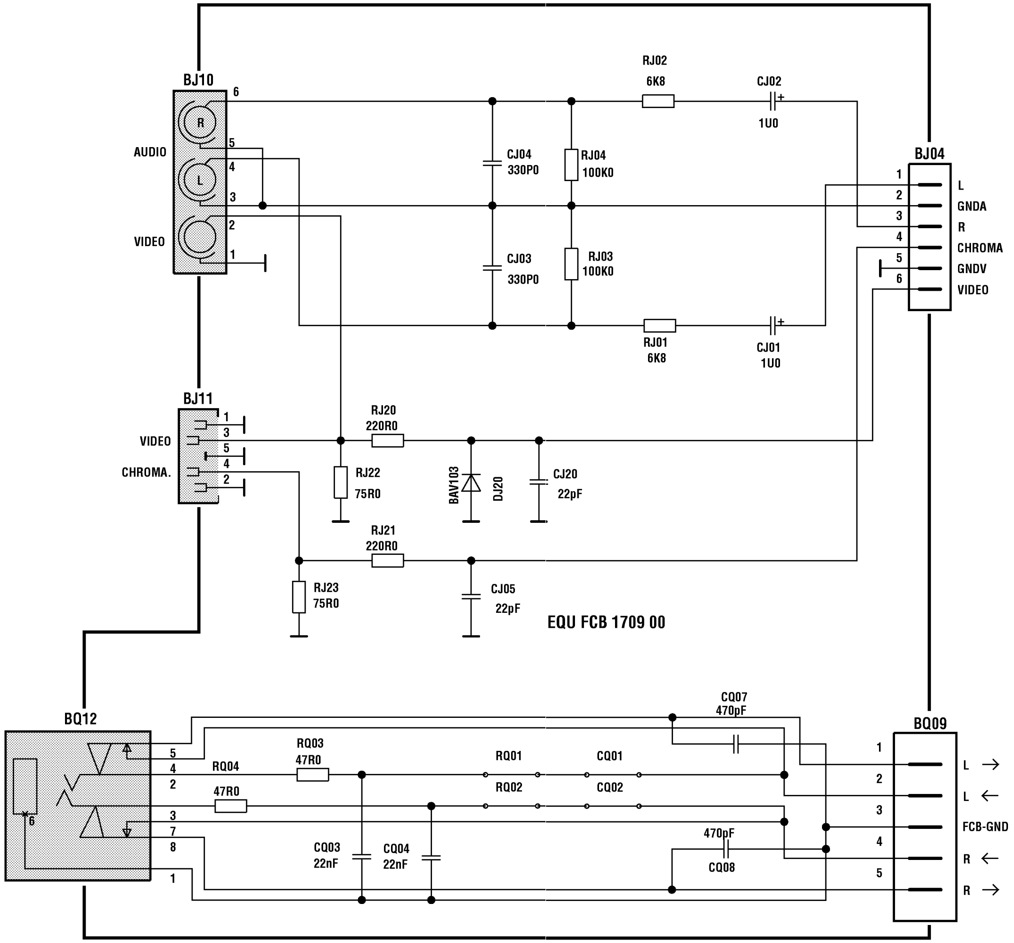

EQU KDB 1703 00
SM01
PR-
SM04
VOL+
SM02
PR+
SM03
VOL-
BM06
KEY_IN_2
KEY_IN_1
KEYB_B
KEYB_A
KDB-GND
+5V_ECO
IR
U_ECO
JM01
JM02
GR01
TFMT1330T
RR01
1K0
RR02
270R0
GE01
RE03
100R0
JU5351-JM
CR02
22U0
DR01
BZX55C5V1
DE01
BZX55C2V7

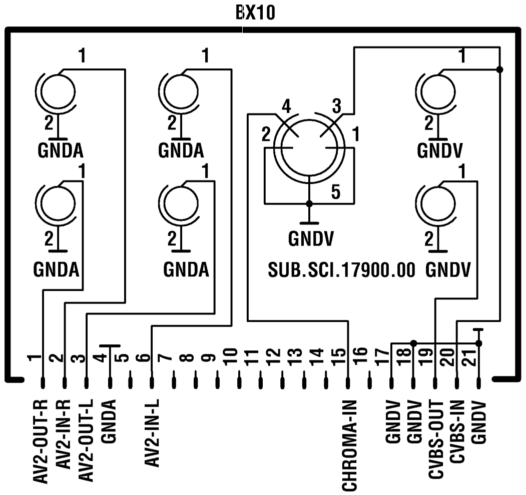

EQU FCB 1701 00
BJ10
VIDEO1
AUDIO
R
L
RJ02
6K8
CJ02
1U0
CJ04
330P0
RJ04
100K0
CJ03
330P0
RJ03
100K0
RJ01
6K8
CJ01
1U0
BJ04
L
GNDA
R
CHROMA
GNDV
VIDEO
BJ11
VIDEO1
CHROMA1
RJ20
220R0
BAV21
DJ20
75R
RJ22
220R0
RJ21
75R
RJ23
BQ12
330R0
RQ05
RQ06
330R0
680R0
RQ01
RQ02
680R0
10U0
CQ01
CQ02
10U0
CQ03
3N3
CQ04
3N3
CQ05
470P0
CQ06
470P0
BQ09
GND-HS


470P0
CQ06
BQ12
RQ03
330R0
680R0
RQ01
RQ04
330R0
680R0
RQ02
CQ02
10U0
CQ05
470P0
CQ03
3N3
CQ01
10U0
CQ04
3N3
BQ09
EQU FCB 1708 00
BK01
VOL+
PR-
VOL-
SK01
PR+
SK02
BK07


BJ10
VIDEO
AUDIO
RJ02
6K8
CJ02
1U0
CJ04
330P0
RJ04
100K0
CJ03
330P0
RJ03
100K0
CJ01
1U0
BJ04
L
R
CHROMA
VIDEO
BJ11
VIDEO
CHROMA.
RJ20
220R0
RJ21
75R0
DJ20
BAV103
RJ05
220R0
RJ06
75R0
CJ05
NI
BQ12
RQ05
330R0
RQ03
330R0
RQ01
330R0
CQ01
10U0
CQ05
470P0
BQ09
RQ06
330R0
CQ03
3N3
CQ04
3N3
RQ04
330R0
RQ02
330R0
CQ02
10U0
CQ06
470P0
L →
L ←
FCB-GND
R ←
R →
FCB 17001 00
FCB.17000.00


EQU FCB 1706 00
BJ10
R
L
V
LJ01
LJ02
CJ04
330P0
CJ03
330P0
RJ04
100K0
RJ03
100K0
RJ02
6K8
RJ01
6K8
CJ02
1U0
CJ01
1U0
BJ04
BJ11
VIDEO
RJ20
220R0
DJ20
BAV21
RJ22
75R0
CHROMA.
RJ21
220R0
RJ23
75R0
BQ12
BQ09
L
L
R
R
330R0
RQ03
RQ04
330R0
680R0
RQ01
RQ02
680R0
CQ01
10U0
CQ02
10U0
CQ05
470P0
CQ06
470P0
CQ03
3N3
CQ04
3N3
SKHTLC
SK01
VOL+
VOL-
SKHTLC
SK02
PR+
PR-
JK03
JK02
SP01
BK01
BK07


BJ10
AUDIO
VIDEO
R
L
RJ02
6K8
CJ02
1U0
CJ04
330P0
RJ04
100K0
CJ03
330P0
RJ03
100K0
RJ01
6K8
CJ01
1U0
BJ04
L
GNDA
R
CHROMA
GNDV
VIDEO
BJ11
VIDEO
CHROMA.
RJ20
220R0
RJ22
75R0
BAV103
DJ20
CJ20
22pF
RJ21
220R0
RJ23
75R0
CJ05
22pF
EQU FCB 1709 00
BQ12
CQ07
470pF
RQ03
47R0
RQ04
47R0
RQ01
CQ01
RQ02
CQ02
CQ03
22nF
CQ04
22nF
470pF
CQ08
BQ09
L →
L ←
FCB-GND
R ←
R →


BX10
GNDA
GNDA
GNDA
GNDA
GNDV
GNDV
GNDV
SUB.SCI.17900.00
AV2-OUT-R
AV2-IN-R
AV2-OUT-L
GNDA
AV2-IN-L
CHROMA-IN
GNDV
GNDV
CVBS-OUT
CVBS-IN
GNDV

ICC17
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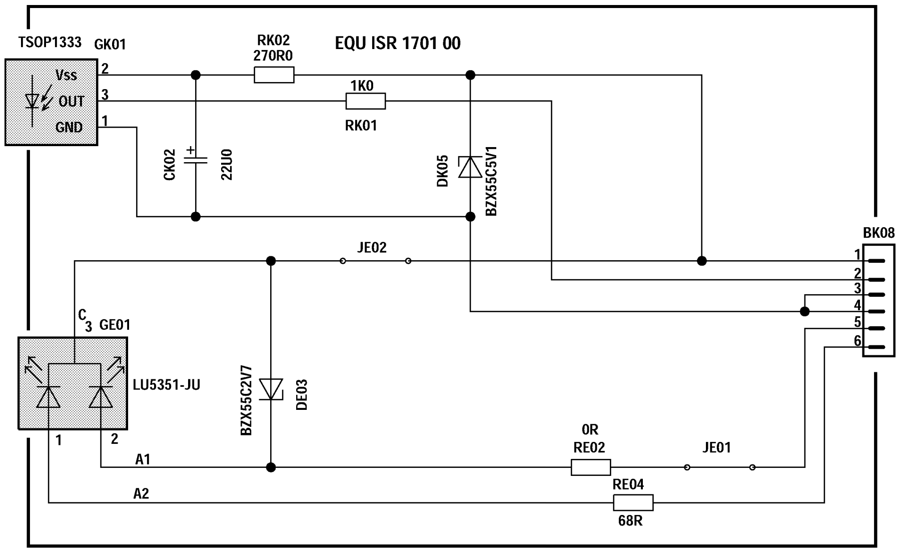
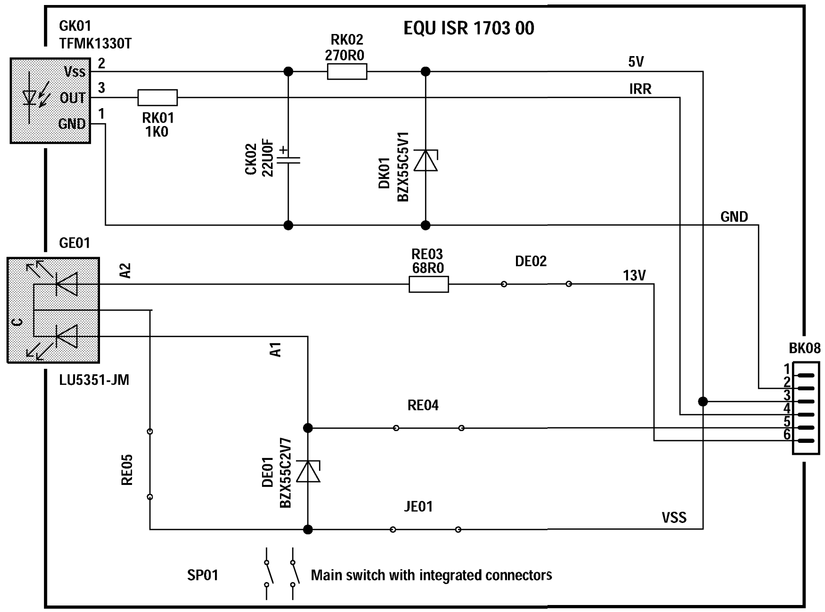
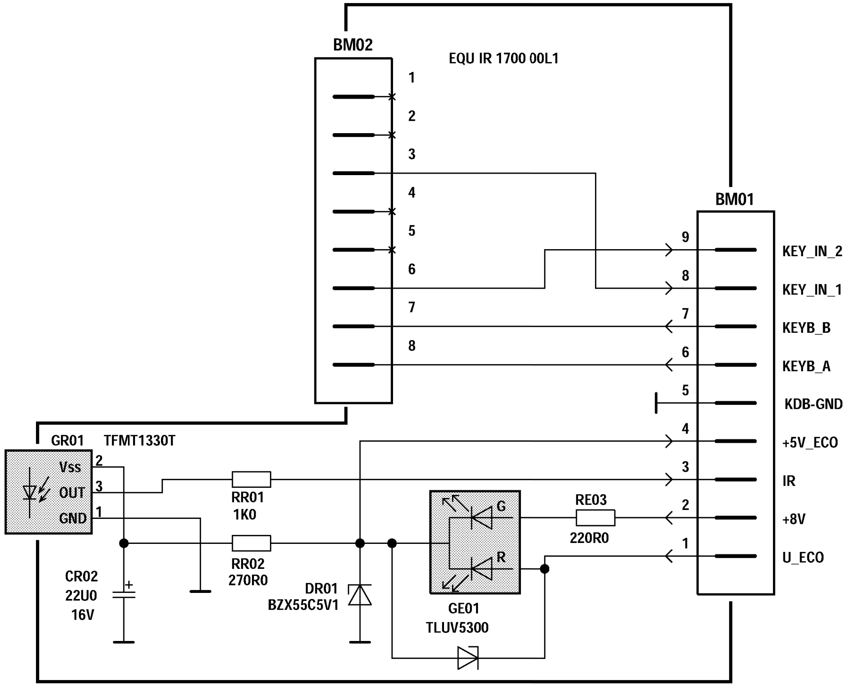
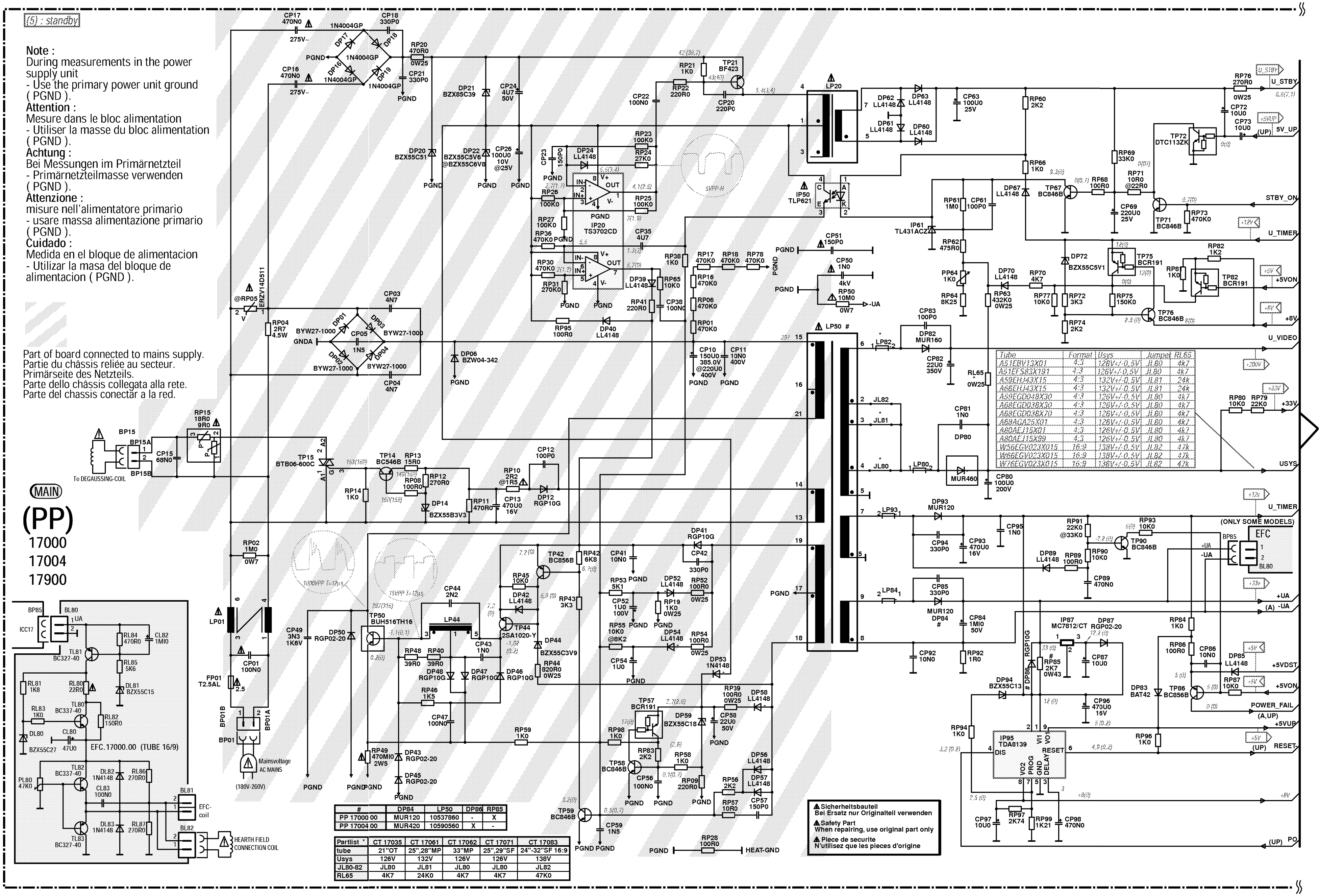

TSOP1333
GK01
Vss
OUT
GND
2
3
1
RK02
270R0
EQU ISR 1701 00
1K0
RK01
CK02
22U0
DK05
BZX55C5V1
JE02
BK08
1
2
3
4
5
6
C
3
GE01
LU5351-JU
BZX55C2V7
DE03
1
2
A1
A2
0R
RE02
JE01
RE04
68R


GK01
TFMK1330T
EQU ISR 1703 00
RK02
270R0
Vss
OUT
GND
2
3
1
RK01
1K0
5V
IRR
CK02
22U0F
DK01
BZX55C5V1
GND
GE01
RE03
68R0
DE02
13V
A2
C
A1
LU5351-JM
BK08
1
2
3
4
5
6
RE04
RE05
DE01
BZX55C2V7
JE01
VSS
SP01
Main switch with integrated connectors


BM02
EQU IR 1700 00L1
1
2
3
4
5
6
7
8
BM01
9
8
7
6
5
4
3
2
1
KEY_IN_2
KEY_IN_1
KEYB_B
KEYB_A
KDB-GND
+5V_ECO
IR
+8V
U_ECO
GR01
TFMT1330T
Vss
OUT
GND
2
3
1
RR01
1K0
RR02
270R0
CR02
22U0
16V
DR01
BZX55C5V1
G
R
GE01
TLUV5300
RE03
220R0

POWER SUPPLY - ALIMENTATION - NETZTEIL - ALIMENTAZIONE - ALIMENTACIÓN


(5) : standby
CP17 470N0
275V~
1N4004GP
CP18 330P0
DP17
DP18
DP16
DP19
CP16 470N0
CP21 330P0
RP20 470R0 0W25
PGND
DP21 BZX85C39
CP24 4U7 50V
DP20 BZX55C51
DP22 BZX55C5V6 @BZX55C6V8
CP26 100U0 10V @25V
CP23 150P0
DP24 LL4148
RP23 100K0
RP24 27K0
RP25 100K0
RP26 100K0
RP27 100K0
RP36 470K0
IP20 TS3702CD
RP30 470K0
RP31 270K0
RP95 100R0
DP40 LL4148
CP35 4U7
DP39 LL4148
RP65 10K0
RP41 220R0
CP38 100N0
RP38 1K0
RP21 1K0
TP21 BF423
CP22 100N0
RP22 220R0
CP20 220P0
5VPP-H
LP20
DP62 LL4148
DP63 LL4148
DP61 LL4148
DP60 LL4148
CP63 100U0 25V
RP60 2K2
RP66 1K0
RP69 33K0
RP76 270R0 0W25
U_STBY
CP72 10U0
CP73 10U0
5V_UP
TP72 DTC113ZK
IP50 TLP621
RP61 1M0
CP61 100P0
DP67 LL4148
TP67 BC846B
RP68 100R0
RP71 10R0 @22R0
CP69 220U0 25V
TP71 BC846B
RP73 470K0
STBY_ON
U_TIMER
IP61 TL431ACZ
RP62 475R0
PP64 1K0
RP64 8K25
RP63 432K0 0W25
DP70 LL4148
RP70 4K7
RP77 10K0
RP72 3K3
RP74 2K2
DP72 BZX55C5V1
TP75 BCR191
RP75 150K0
TP76 BC846B
RP81 1K0
RP82 1K2
TP82 BCR191
+5VON
+8V
CP51 150P0
CP50 1N0 4kV
RP50 10M0 0W7
-UA
RP17 470K0
RP18 470K0
RP78 470K0
RP16 470K0
RP06 470K0
RP01 470K0
CP10 150U0 385.0V @220U0 400V
CP11 10N0 400V
LP50 #
LP82
CP83 100P0
DP82 MUR160
CP82 22U0 350V
RL65 * 0W25
U_VIDEO
JL82
JL81
JL80
CP81 1N0
DP80
LP80
MUR460
CP80 100U0 200V
RP80 10K0
RP79 22K0
+33V
USYS
LP93
DP93 MUR120
CP94 330P0
CP93 470U0 16V
CP95 1N0
RP91 22K0 @33K0
RP93 10K0
TP90 BC846B
DP89 LL4148
RP89 100R0
RP90 10K0
CP89 470N0
(ONLY SOME MODELS)
EFC
BP85
BL80
+UA
-UA
LP84
CP85 330P0
MUR120 DP84 #
CP84 1MI0 50V
CP92 10N0
RP92 1R0
(A) -UA
IP87 MC7812/CT
DP87 RGP02-20
RP85 2K7 0W43
CP87 10U0
DP86 RGP10G
DP94 BZX55C13
CP96 470U0 16V
RP84 1K0
RP86 100R0
CP86 10N0
DP85 LL4148
+5VDST
DP83 BAT42
TP86 BC856B
RP87 10K0
+5VON
POWER_FAIL
(A,UP)
+5VUP
RP94 1K0
IP95 TDA8139
DIS
RESET
VI1
VO1
VO2
PROG
GND
DELAY
RP96 1K0
RESET
CP97 10U0
RP97 2K74
RP99 1K21
CP98 470N0
PO
@RP05 ERZV14D511
RP04 2R7 4.5W
CP03 4N7
DP01 BYW27-1000
DP03 BYW27-1000
CP05 1N5
DP02 BYW27-1000
DP04 BYW27-1000
GNDA
CP04 4N7
DP06 BZW04-342
RP15 18R0 9R0
BP15
BP15A
BP15B
CP15 68N0
To DEGAUSSING-COIL
TP15 BTB06-600C
TP14 BC546B
RP13 15R0
RP08 100R0
RP12 270R0
RP14 1K0
DP14 BZX55B3V3
RP11 470R0
RP10 2R2 @1R5
CP13 470U0 16V
CP12 100P0
DP12 RGP10G
RP02 1M0 0W7
LP01
CP01 100N0
FP01 T2.5AL
BP01
BP01A
BP01B
Mainsvoltage AC MAINS (180V-260V)
CP49 3N3 1K6V
DP50 RGP02-20
TP50 BUH516TH16
LP44
CP44 2N2
TP44 2SA1020-Y
CP43 1N0
RP48 39R0
RP40 39R0
DP48 RGP10G
DP47 RGP10G
DP46 RGP10G
RP46 1K5
CP47 100N0
RP49 470MI0 2W5
DP43 RGP02-20
DP45 RGP02-20
TP42 BC856B
RP42 6K8
RP45 10K0
DP42 LL4148
RP43 3K3
DP44 BZX55C3V9
RP44 820R0 0W25
CP41 10N0
DP41 RGP10G
CP42 330P0
RP53 5K1
DP52 LL4148
RP52 100R0 0W25
CP52 1U0 100V
RP19 1K0 0W25
RP55 10K0 @8K2
DP54 LL4148
RP54 100R0 0W25
CP54 1U0
DP53 1N4148
TP57 BCR191
DP59 BZX55C18
CP58 22U0 50V
RP39 100R0 0W25
DP58 LL4148
RP98 1K0
RP83 2K2
TP58 BC846B
CP56 100N0
RP58 1K0
RP09 220R0
DP56 LL4148
DP57 LL4148
RP56 2K2
RP57 10R0
CP57 150P0
TP59 BC846B
CP59 1N5
RP28 100R0
HEAT-GND
MAIN
(PP)
17000
17004
17900
BP85
BL80
ICC17
UA
RL84 470R0
CL82 1MI0
TL81 BC327-40
RL85 5K6
DL81 BZX55C15
RL81 1K8
RL80 22R0
TL80 BC337-40
RL83 1K0
RL82 150R0
DL80 BZX55C27
CL80 47U0
EFC.17000.00 (TUBE 16/9)
TL82 BC337-40
PL80 47K0
DL82 1N4148
RL86 270R0
CL83 100N0
BL81
EFC-coil
DL83 1N4148
RL87 270R0
TL83 BC327-40
BL82
HEARTH FIELD CONNECTION COIL

Note :
During measurements in the power supply unit
- Use the primary power unit ground (PGND).

Attention :
Mesure dans le bloc alimentation
- Utiliser la masse du bloc alimentation (PGND).

Achtung :
Bei Messungen im Primärnetzteil
- Primärnetzteilmasse verwenden (PGND).

Attenzione :
misure nell'alimentatore primario
- usare massa alimentazione primario (PGND).

Cuidado :
Medida en el bloque de alimentacion
- Utilizar la masa del bloque de alimentacion (PGND).

Part of board connected to mains supply.
Partie du châssis reliée au secteur.
Primärseite des Netzteils.
Parte dello châssis collegata alla rete.
Parte del chassis conectar a la red.

Tube	Format	Usys	Jumper	RL65
A51EBV13X01	4:3	128V+/-0,5V	JL80	4k7
A51EFS83X191	4:3	126V+/-0,5V	JL80	4k7
A59EHJ43X15	4:3	132V+/-0,5V	JL81	24k
A66EHJ43X15	4:3	132V+/-0,5V	JL81	24k
A59EGD048X30	4:3	126V+/-0,5V	JL80	4k7
A68EGD038X30	4:3	126V+/-0,5V	JL80	4k7
A68EGD038X70	4:3	126V+/-0,5V	JL80	4k7
A68AGA25X01	4:3	126V+/-0,5V	JL80	4k7
A80AEJ15X01	4:3	126V+/-0,5V	JL80	4k7
A80AEJ15X99	4:3	126V+/-0,5V	JL80	4k7
W56EGV023X015	16:9	138V+/-0,5V	JL82	47k
W66EGV023X015	16:9	138V+/-0,5V	JL82	47k
W76EGV023X015	16:9	138V+/-0,5V	JL82	47k

#	DP84	LP50	DP86	RP85
PP 17000 00	MUR120	10537860	-	X
PP 17004 00	MUR420	10590560	X	-

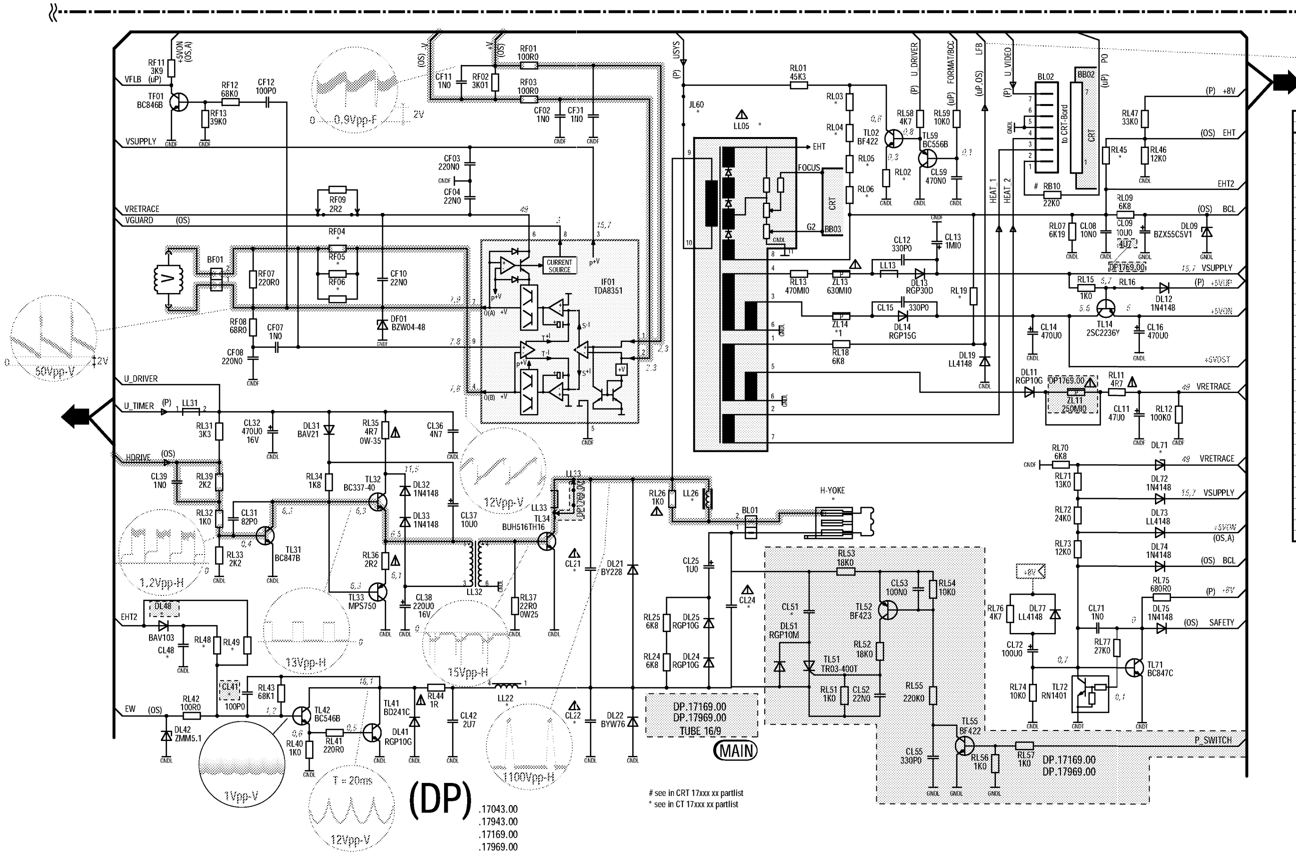
Partlist *	CT 17035	CT 17061	CT 17062	CT 17071	CT 17083
tube	21"OT	25",28"MP	33"MP	25",29"SF	24"-32"SF 16:9
Usys	126V	132V	126V	126V	138V
JL80-82	JL80	JL81	JL80	JL80	JL82
RL65	4K7	24K0	4K7	4K7	47K0

⚠ Sicherheitsbauteil
Bei Ersatz nur Originalteil verwenden

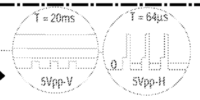
⚠ Safety Part
When repairing, use original part only

⚠ Piece de securite
N'utilisez que les pieces d'origine

SCANNING - BALAYAGE - ABLENKUNG - BARRIDO - SCANSIONE



VFLB
VSUPPLY
VRETRACE
VGUARD (OS)
U_DRIVER
U_TIMER
HDRIVE (OS)
EHT2
EW (OS)
TF01 BC846B
RF11 3K9
RF12 68K0
RF13 39K0
CF12 100P0
RF01 100R0
RF02 3K01
RF03 100R0
CF11 1N0
CF02 1N0
CF31 1N0
CF03 220N0
CF04 22N0
RF09 2R2
RF04
RF05
RF06
RF07 220R0
RF08 68R0
CF07 1N0
CF08 220N0
CF10 22N0
DF01 BZW04-48
BF01
IF01 TDA8351
CURRENT SOURCE
0...0.9Vpp-F
50Vpp-V
12Vpp-V
1.2Vpp-H
13Vpp-H
15Vpp-H
1100Vpp-H
1Vpp-V
T = 20ms
RL01 4K3
RL03
RL04
RL05
RL06
TL02 BF422
RL58 4K7
RL59 10K0
TL59 BC556B
CL59 470N0
RL02
LL05
EHT
FOCUS
G2
CRT
BB03
CL12 330P0
CL13 1MI0
LL13
DL13 RGP30D
RL13 470MI0
ZL13 630MI0
RL18 6K8
CL15 330P0
ZL14
DL14 RGP15G
DL19 LL4148
RL19
BL02
BB02
to CRT-Board
RB10 22K0
RL47 33K0
RL46 12K0
RL45
RL07 6K19
CL08 10N0
CL09 10U0
RL09 6K8
DL09 BZX55C5V1
RL15 1K0
RL16
TL14 2SC2236Y
DL12 1N4148
CL14 470U0
CL16 470U0
DL11 RGP10G
DP17169.00
ZL11 250MI0
RL11 4R7
CL11 47U0
RL12 100K0
RL70 6K8
RL71 13K0
DL72 1N4148
RL72 24K0
DL73 LL4148
RL73 12K0
DL74 1N4148
RL75 680R0
DL75 1N4148
RL76 4K7
DL77 LL4148
CL72 100U0
CL71 1N0
RL77 27K0
TL71 BC847C
RL74 10K0
TL72 RN1401
(P) +8V
(OS) EHT
EHT2
(OS) BCL
VSUPPLY
(P) +5VSB
+5VSB
+5VSDT
VRETRACE
VSUPPLY
+5VSW
(OS,A)
(OS) BCL
(P) +8V
(OS) SAFETY
P_SWITCH
USYS
U_DRIVER
FORMAT/BCC
LFB
U_VIDEO
HEAT_1
HEAT_2
RL31 3K3
CL32 470U0 16V
DL31 BAV21
RL35 4R7 0W-35
CL36 4N7
LL31
CL39 1N0
RL39 2K2
RL34 1K8
TL32 BC337-40
DL32 1N4148
DL33 1N4148
CL37 10U0
LL33
TL34 BUH516TH16
RL32 1K0
CL31 82P0
TL31 BC847B
RL33 2K2
RL36 2R2
TL33 MPS750
CL38 220U0 16V
LL32
RL37 22R0 0W25
RL26 1K0
LL26
BL01
H-YOKE
CL21
DL21 BY228
CL25 1U0
CL24
RL25 6K8
DL25 RGP10G
RL24 6K8
DL24 RGP10G
DL48
BAV103
CL48
RL48
RL49
CL41 100P0
RL43 68K1
RL44 1R
TL41 BD241C
DL41 RGP10G
CL42 2U7
LL22
CL22
DL22 BYW76
TL42 BC546B
RL42 100R0
DL42 ZMM5.1
RL40 1K0
RL41 220R0
RL53 18K0
CL53 100N0
RL54 10K0
CL51
DL51 RGP10M
TL52 BF423
RL52 18K0
TL51 TR03-400T
RL51 1K0
CL52 22N0
RL55 220K0
TL55 BF422
CL55 330P0
RL56 1K0
RL57 1K0
DP.17169.00
DP.17969.00
TUBE 16/9
MAIN
(DP)
.17043.00
.17943.00
.17169.00
.17969.00
# see in CRT 17xxx xx partlist
* see in CT 17xxx xx partlist



⚠ Indicates critical safety components, and identical components should be used for replacement. Only then can the operational safety be garanteed.

Le remplacement des éléments de sécurité (repérés avec le symbole ⚠) par des composants non homologués selon la Norme CEI 65 entraine la non-conformité de l'appareil.
Dans ce cas, la responsabilité du fabricant n'est plus engagée.

Wenn Sicherheitsteile (mit dem Symbol ⚠ gekennzeichnet) durch nicht normgerechte Teile ersetzt werden, erlischt die Haftung des Herstellers.

La sostituzione degli elementi di sicurezza (contrassegnati con il segno ⚠) con componenti non omologati secondo la norma CEI 65 comporta la non conformitá dell'apparecchio.
In tal caso é "esclusa la responsabilità" del costruttore.

La subtitución de elementos de seguridad (marcados con el simbolo ⚠) por componentes no homologados segun la norma CEI 65, provoca la no conformidad del aparato.
En ese caso, el fabricante cesa de ser responsable.

	TV PSD CT 17062 26 TV ASY A80AEJ15X01 (A) 00
CL21	16N2F +3.5% -3.5% 1K6V
CL21	16N5F +3.5% -3.5% 2K0V
CL21A	16N5F +3.5% -3.5% 1K6V
CL22	30N0F +5% -5% 400.0V
CL22	30N0F +5% -5% 1K0V
CL24	560N0F +5% -5% 250.0V
CL41	100P0F +10% -10% 50.0V
CL48	10N0F +10% 63.0V
CL48	10N0F +10% 100.0V
DL48	D-SLP BAV103 200.0V
DL71	D-ZENER BZX55B24 24V 500MI0W
DL71	D-ZENER BZX55C24 24V 500MI0W
DL71	D-ZENER BZX55C30 30V 500MI0W
JL60	WIREBARE 22
JL80	0 OHM +0% 100MI0W
LB02	LF 32U0H +4% -4%
LL05	TF-DST TDS29
LL22	LF 650U0H +5% -5%
LL22	LF 650U0H +5% -5% EAST-WEST
LL26	LL 26U5H +10%
LL26	LL 22U0H +10%
RF05	1R0 OHM +1% 700MI0W
RF05	1R21 OHM +1% 700MI0W
RF06	10R0 OHM +1% +100PPM/'C 100MI0W
RL02	6K2 OHM +5% 100MI0W 1004 A3 00
RL02	6K04 OHM +1% +100PPM/'C 100MI0W
RL03	4K75 OHM +1% +100PPM/'C 100MI0W
RL04	4K75 OHM +1% +100PPM/'C 100MI0W
RL05	4K75 OHM +1% +100PPM/'C 100MI0W
RL06	6K81 OHM +1% +100PPM/'C 100MI0W
RL06	10K0 OHM +1% +100PPM/'C 100MI0W
RL19	13K0 OHM +5% 100MI0W
RL45	150K0 OHM +5% 100MI0W
RL48	76K8 OHM +1% +100PPM/'C 100MI0W
RL49	560K0 OHM +5% 100MI0W
RL65	4K7 OHM +5% 250MI0W
RV20	23K7 OHM +1% 250MI0W
RV20	33K2 OHM +1% 250MI0W

	TV PSD CT 17035 26 TV ASY A51EFS83X191 03
CL21	8N3F +3.5% -3.5% 2K0V
CL21	8N3F +3.5% -3.5% 1K6V
CL21	8N8F +3.5% -3.5% 1K6V
CL21A	8N3F +3.5% -3.5% 1K6V
CL22	33N0F +5% -5% 400.0V
CL22	30N0F +5% -5% 400.0V
CL22	33N0F +5% -5% 1K0V
CL24	440N0F +5% -5% 400.0V
CL24	440N0F +5% -5% 250.0V
CL24	440N0F +5% -5% 250.0V
CL24A	440N0F +5% -5% 250.0V
CL41	1N0F +10% -10% 50.0V
CL48	100N0F +5% 63.0V
DL71	D-ZENER BZX55C20 20V 500MI0W
DL71	D-ZENER BZX55C24 24V 500MI0W
DL71	D-ZENER BZX55C30 30V 500MI0W
JL60	WIREBARE 22
JL80	0 OHM +0%
JP81	0 OHM +0%
LB02	LF 18U0H +7% -7%
LB02	LF 21U0H +5% -5%
LL05	F-DST M30FBC3 10555640 3087
LL22	LF 650U0H +5% -5%
LL22	LF 650U0H +5% -5% EAST-WEST
LL26	LL 85U0H 2519 A0
LL26	LL 39U0H +10%
RF04	1R21 OHM +1% 700MI0W
RF05	1R21 OHM +1% 700MI0W
RF05	1R5 OHM +1% 700MI0W
RF06	10R0 OHM +1% +100PPM/'C
RL02	6K2 OHM +5%
RL02	6K04 OHM +1% +100PPM/'C
RL03	10K0 OHM +1% +100PPM/'C
RL04	10K0 OHM +1% +100PPM/'C
RL04	20K0 OHM +1% +100PPM/'C
RL05	10K0 OHM +1% +100PPM/'C
RL0	20K0 OHM +1% +100PPM/'C
RL06	10K0 OHM +1% +100PPM/'C
RL06	3K32 OHM +1% +100PPM/'C
RL11	4R7 OHM +10% 250MI0W
RL11	4R7 OHM +5% 250MI0W
RL19	18K0 OHM +5%
RL43	68K1 OHM +1% 250MI0W
RL43	68K1 OHM +1% +100PPM/'C
RL45	82K0 OHM +5%
RL45	110K0 OHM +5%
RL45	470K0 OHM +5%
RL46	12K0 OHM +5%
RL47	33K0 OHM +5%
RL48	100K0 OHM +1% +100PPM/'C
RL49	76K8 OHM +1% +100PPM/'C
RL49	60K4 OHM +1% +100PPM/'C
RL64	8K25 OHM +1% +100PPM/'C
RL65	4K7 OHM +5% 250MI0W
RV20	3K7 OHM +1% 250MI0W
RV20	33K2 OHM +1% 250MI0W
RV20	33K2 OHM +1% +100PPM/'C
ZL13	MP63 630MI0 A 65.0V

	TV ASY A59EHJ43X15 00 TV ASY A66EHJ43X15 00 TV PSD CT 17061 32
CL21	14N4F +3.5% -3.5% 1K6V
CL21	14N4F +3.5% -3.5% 1K6V
CL21	14N0F +3.5% -3.5% 1K5V
CL22	30N0F +5% -5% 400.0V
CL22	30N0F +5% -5% 400.0V
CL22	30N0F +5% -5% 1K0V
CL24	440N0F +5% -5% 400.0V
CL24	470N0F +5% -5% 250.0V
CL24	440N0F +5% -5% 250.0V
CL24	440N0F +5% -5% 250.0V
CL24A	440N0F +5% -5% 250.0V
CL41	100P0F +10% -10% 50.0V
CL48	10N0F +10% 63.0V
CL48	10N0F +10% 100.0V
DL48	BAV103 200.0V
DL71	BZX55B24 24V 500MI0W
DL71	BZX55C24 24V 500MI0W
DL71	BZX55C30 30V 500MI0W
JL60	WIREBARE 22
JL81	0 OHM +0% 100MI0W
JP80	0 OHM +0% 100MI0W
LB02	13U5H +5% -5%
LB02	18U0H +7% -7%
LB02	21U0H +5% -5%
LB02	21U0H +5% -5%
LL05	TF-DST M30FBC3 10546610 3087
LL05	TF-DST M30FBC3 10600190 3087
LL05	TF-DST M30FBC3 10608680 3087
LL22	650U0H +5% -5%
LL22	650U0H +5% -5% EAST-WEST
LL26	26U5H +10%
LL26	30U5H 2519 A0
RF04	1R21 OHM +1% 700MI0W
RF05	1R0 OHM +1% 700MI0W
RF05	1R21 OHM +1% 700MI0W
RF06	12R1 OHM +1% +100PPM/'C 100MI0W
RL02	10K0 OHM +5% 100MI0W
RL02	6K04 OHM +1% +100PPM/'C 100MI0W
RL02	499R0 OHM +1% +100PPM/'C 100MI0W
RL03	10K0 OHM +1% +100PPM/'C 100MI0W
RL03	11K5 OHM +1% +100PPM/'C 100MI0W
RL04	10K0 OHM +1% +100PPM/'C 100MI0W
RL04	20K0 OHM +1% +100PPM/'C 100MI0W
RL04	11K5 OHM +1% +100PPM/'C 100MI0W
RL05	10K0 OHM +1% +100PPM/'C 100MI0W
RL05	20K0 OHM +1% +100PPM/'C 100MI0W
RL05	11K5 OHM +1% +100PPM/'C 100MI0W
RL06	8K25 OHM +1% +100PPM/'C 100MI0W
RL06	4K75 OHM +1% +100PPM/'C 100MI0W
RL06	9K09 OHM +1% +100PPM/'C 100MI0W
RL06	11K5 OHM +1% +100PPM/'C 100MI0W
RL11	4R7 OHM +10% 250MI0W
RL11	4R7 OHM +5% 250MI0W
RL19	22K0 OHM +5% 100MI0W
RL19	33K0 OHM +5% 100MI0W
RL43	68K1 OHM +1% 250MI0W
RL43	68K1 OHM +1% 250MI0W
RL43	68K1 OHM +1% +100PPM/'C 100MI0W
RL45	180K0 OHM +5% 100MI0W
RL45	270K0 OHM +5% 100MI0W
RL46	12K0 OHM +5% 100MI0W
RL47	33K0 OHM +5% 100MI0W
RL48	76K8 OHM +1% +100PPM/'C 100MI0W
RL48	60K4 OHM +1% +100PPM/'C 100MI0W
RL64	8K25 OHM +1% +100PPM/'C 100MI0W
RL65	24K0 OHM +5% 250MI0W
RV20	33K2 OHM +1% 250MI0W
RV20	33K2 OHM +1% +100PPM/'C 100MI0W
ZL13	MP63 630MI0 A 65.0V

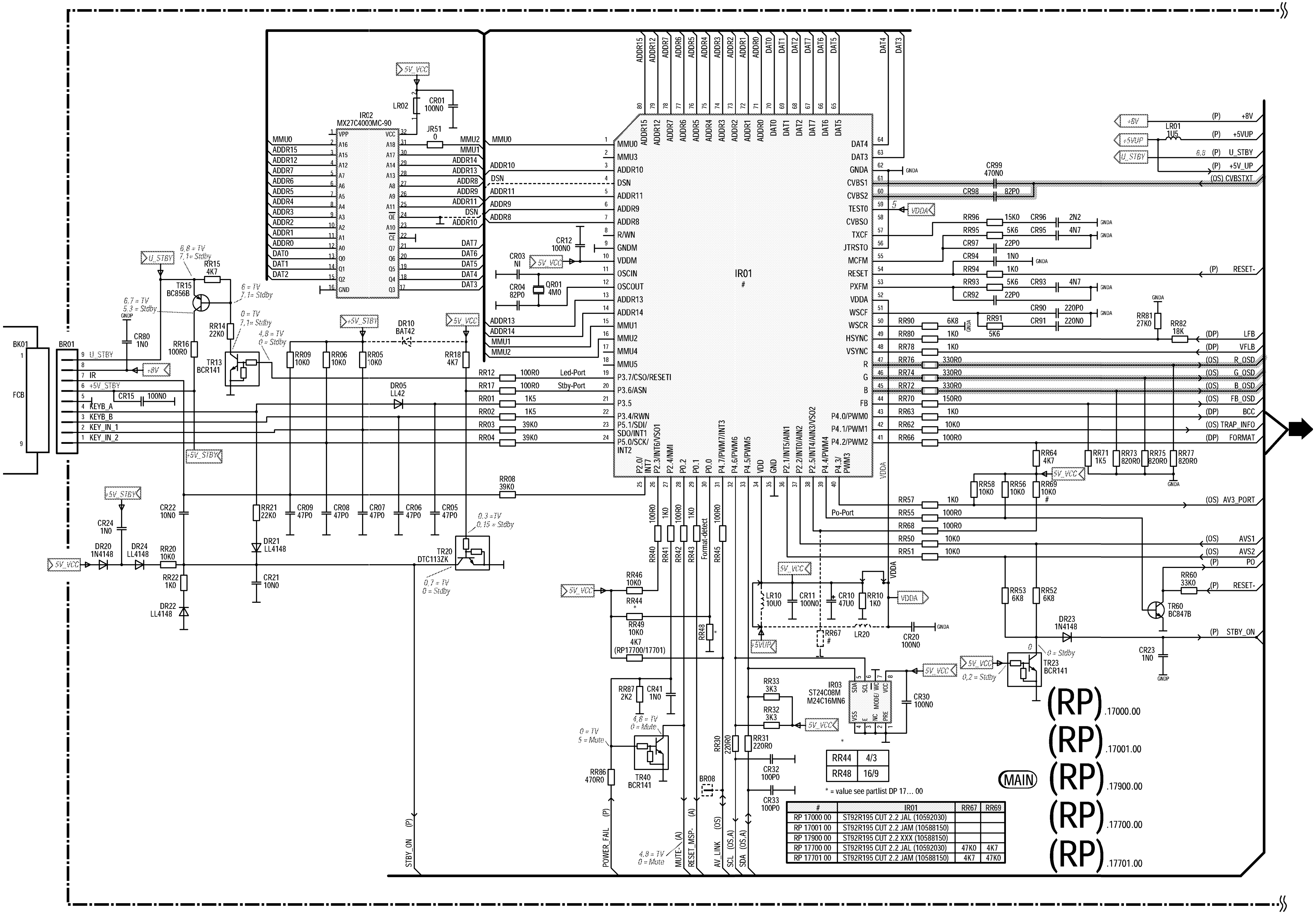
	TV PSD CT 17083 38 TV ASY W56EGV023X015 56 01 TV ASY W56EGV023X015 56 01 TV ASY W66EGV023X015 66 00 TV ASY W66EGV023X015 66 00 TV ASY W66EGV023X015 66 01 TV ASY W76EGV023X015 (A) 00 TV ASY W76EGV023X015 (A) 00
CL2	14N4F +3.5% -3.5% 1K6V
CL21	15N5F +3.5% -3.5% 1K6V
CL21	15N0F +3.5% -3.5% 2K0V
CL21A	15N0F +3.5% -3.5% 1K6V
CL22	27N0F +5% -5% 400.0V
CL22	27N0F +5% -5% 1K0V
CL24	440N0F +5% -5% 250.0V
CL24	440N0F +5% -5% 400.0V
CL24	440N0F +5% -5% 250.0V
CL41	100P0F +10% -10% 50.0V
CL48	100N0F +5% 63.0V
CL51	90N0F +5% -5% 250.0V
CL51	290N0F +5% -5% 400.0V
DL48	D-SLP BAV103 200.0V
DL71	D-ZENER BZX55C20 20V 500MI0W
DL71	D-ZENER BZX55C24 24V 500MI0W
JL60	WIREBARE 22
JL82	0 OHM +0%
JP80	0 OHM +0%
JP81	0 OHM +0%
LB02	LF 29U0H +4% -4%
LB02	LF 32U0H +4% -4%
LL05	TF-DST TDS29
LL22	LF 650U0H +5% -5%
LL22	LF 650U0H +5% -5% EAST-WEST
LL26	LL 26U5H +10%
LL26	LL 30U5H 2519 A0
RF04	1R21 OHM +1% 700MI0W
RF05	1R21 OHM +1% 700MI0W
RF05	1R5 OHM +1% 700MI0W
RF06	10R0 OHM +1% +100PPM/'C
RL02	4K99 OHM +1% +100PPM/'C
RL02	4K75 OHM +1% +100PPM/'C
RL02	6K04 OHM +1% +100PPM/'C
RL03	6K49 OHM +1% +100PPM/'C
RL03	8K87 OHM +1% +100PPM/'C
RL04	6K49 OHM +1% +100PPM/'C
RL04	8K87 OHM +1% +100PPM/'C
RL04	10K0 OHM +1% +100PPM/'C
RL05	6K49 OHM +1% +100PPM/'C
RL05	8K87 OHM +1% +100PPM/'C
RL05	10K0 OHM +1% +100PPM/'C
RL06	6K49 OHM +1% +100PPM/'C
RL06	8K87 OHM +1% +100PPM/'C
RL06	3K32 OHM +1% +100PPM/'C
RL06	2K37 OHM +1% +100PPM/'C
RL11	4R7 OHM +10% 250MI0W
RL11	4R7 OHM +5% 250MI0W
RL19	15K0 OHM +5%
RL19	13K0 OHM +5%
RL43	68K1 OHM +1% 250MI0W
RL43	68K1 OHM +1% +100PPM/'C
RL45	470K0 OHM +5%
RL45	390K0 OHM +5%
RL46	12K0 OHM +5%
RL47	33K0 OHM +5%
RL48	1K0 OHM +5%
RL48	220K0 OHM +5%
RL48	237K0 OHM +1% +100PPM/'C
RL49	180K0 OHM +5%
RL49	143K0 OHM +1% +100PPM/'C
RL64	8K25 OHM +1% +100PPM/'C
RL65	47K0 OHM +5% 250MI0W
RV20	100K0 OHM +1% 250MI0W
RV20	33K2 OHM +1% +100PPM/'C
RV20	100K0 OHM +1% 250MI0W
ZL13	MP63 630MI0 A 65.0V

	TV ASY A66EHJ43X85 01 TV PSD CT 17961 32
CL21	CFS 14N4F +3.5% -3.5% 1K6V
CL21	CFS 14N4F +3.5% -3.5% 1K6V
CL22	CFS 30N0F +5% -5% 400.0V
CL22	CFS 30N0F +5% -5% 1K0V
CL24	CFS 440N0F +5% -5% 400.0V
CL24	CFS 440N0F +5% -5% 250.0V
CL24A	CFS 440N0F +5% -5% 250.0V
CL41	CCCMIN 100P0F +10% -10% 50.0V
CL48	CPM 10N0F +10% 100.0V
DL48	D-SLP BAV103 200.0V
DL71	D-ZENER BZX55B24 24V 500MI0W
DL71	D-ZENER BZX55C24 24V 500MI0W
JL60	WIREBARE 22
JL81	RCFCCMIN 0 OHM +0% 100MI0W
LB02	LF 21U0H +5% -5%
LL05	TF-DST M30FBC3 10600190 3087
LL05	TF-DST M30FBC3 10608680 3087
LL22	LF 650U0H +5% -5%
LL22	LF 650U0H +5% -5% EAST-WEST
LL26	LL 26U5H +10%
RF05	RMF 1R0 OHM +1% 700MI0W
RL02	RCFCCMIN 10K0 OHM +5% 100MI0W
RL03	RMFCCMIN 10K0 OHM +1% +100PPM/'C 100MI0W
RL04	RMFCCMIN 10K0 OHM +1% +100PPM/'C 100MI0W
RL05	RMFCCMIN 10K0 OHM +1% +100PPM/'C 100MI0W
RL06	RMFCCMIN 8K25 OHM +1% +100PPM/'C 100MI0W
RL06	RMFCCMIN 4K75 OHM +1% +100PPM/'C 100MI0W
RL06	RMFCCMIN 9K09 OHM +1% +100PPM/'C 100MI0W
RL19	RCFCCMIN 22K0 OHM +5% 100MI0W
RL45	RCFCCMIN 180K0 OHM +5% 100MI0W
RL48	RMFCCMIN 76K8 OHM +1% +100PPM/'C 100MI0W
RL65	RCF 24K0 OHM +5% 250MI0W
RV20	RMF 33K2 OHM +1% 250MI0W

	TV ASY A68EGD038X70 (A) 68 00 TV PSD CT 17971 26
CL21	16N2F +3.5% -3.5% 1K6V
CL21	16N2F +3.5% -3.5% 2K0V
CL21A	16N2F +3.5% -3.5% 1K6V
CL22	30N0F +5% -5% 400.0V
CL22	30N0F +5% -5% 1K0V
CL24	510N0F +5% -5% 250.0V
CL24	510N0F +5% -5% 250.0V
CL41	100P0F +10% -10% 50.0V
CL48	10N0F +10% 100.0V
DL48	D-SLP BAV103 200.0V
DL71	D-ZENER BZX55B24 24V 500MI0W
DL71	D-ZENER BZX55C24 24V 500MI0W
JL60	WIREBARE 22
JL80	0 OHM +0% 100MI0W
LB02	LF 32U0H +4% -4%
LL05	TF-DST TDS29
LL22	LF 650U0H +5% -5%
LL22	LF 650U0H +5% -5% EAST-WEST
LL26	LL 26U5H +10%
LL26	LL 22U0H +10%
RF05	1R0 OHM +1% 700MI0W
RL02	6K8 OHM +5% 100MI0W 1004 A3 00
RL03	4K75 OHM +1% +100PPM/'C 100MI0W
RL04	4K75 OHM +1% +100PPM/'C 100MI0W
RL05	4K75 OHM +1% +100PPM/'C 100MI0W
RL06	4K75 OHM +1% +100PPM/'C 100MI0W
RL19	15K0 OHM +5% 100MI0W
RL45	180K0 OHM +5% 100MI0W
RL48	100K0 OHM +5% 100MI0W
RL49	300K0 OHM +5% 100MI0W
RL65	4K7 OHM +5% 250MI0W
RV20	33K2 OHM +1% 250MI0W

	TV PSD CT 17962 26 TV ASY A80AEJ15X99 80 00
CL21	16N5F +3.5% -3.5% 2K0V
CL21A	16N5F +3.5% -3.5% 1K6V
CL22	30N0F +5% -5% 1K0V
CL24	560N0F +5% -5% 250.0V
CL41	100P0F +10% -10% 50.0V
CL48	10N0F +10% 100.0V
DL48	D-SLP BAV103 200.0V
DL71	D-ZENER BZX55B24 24V 500MI0W
DL71	D-ZENER BZX55C24 24V 500MI0W
JL60	WIREBARE 22
JL80	0 OHM +0%
LB02	LF 32U0H +4% -4%
LL05	TF-DST TDS29
LL22	LF 650U0H +5% -5%
LL22	LF 650U0H +5% -5% EAST-WEST
LL26	LL 22U0H +10%
RF05	1R0 OHM +1% 700MI0W
RL02	6K2 OHM +5%
RL03	4K75 OHM +1% +100PPM/'C
RL04	4K75 OHM +1% +100PPM/'C
RL05	4K75 OHM +1% +100PPM/'C
RL06	10K0 OHM +1% +100PPM/'C
RL19	13K0 OHM +5%
RL45	150K0 OHM +5%
RL48	76K8 OHM +1% +100PPM/'C
RL49	560K0 OHM +5%
RL65	4K7 OHM +5% 250MI0W
RV20	33K2 OHM +1% 250MI0W

CONTROL MICROPROCESSOR - MICROPROCESSEUR DE COMMANDE - MIKROPROZESSOR - MICROPROCESSORE DEI COMANDI - MICROPROCESADOR DE LOS MANDOS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IR03
ST24C08M
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BK01
BR01
FCB
U_STBY
IR
+5V_STBY
KEYB_A
KEYB_B
KEY_IN_1
KEY_IN_2
TR15
BC856B
TR13
BCR141
TR20
DTC113ZK
TR40
BCR141
TR23
BCR141
TR60
BC847B
QR01
4M0
LR01
1U5
LR10
10U0
LR20
DR10
BAT42
DR05
LL42
DR20
1N4148
DR24
LL4148
DR21
LL4148
DR22
LL4148
DR23
1N4148
5V_VCC
U_STBY
+8V
+5VUP
VDDA
GNDA
MMU0
MMU1
MMU2
MMU3
MMU4
MMU5
ADDR0
ADDR1
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ADDR11
ADDR12
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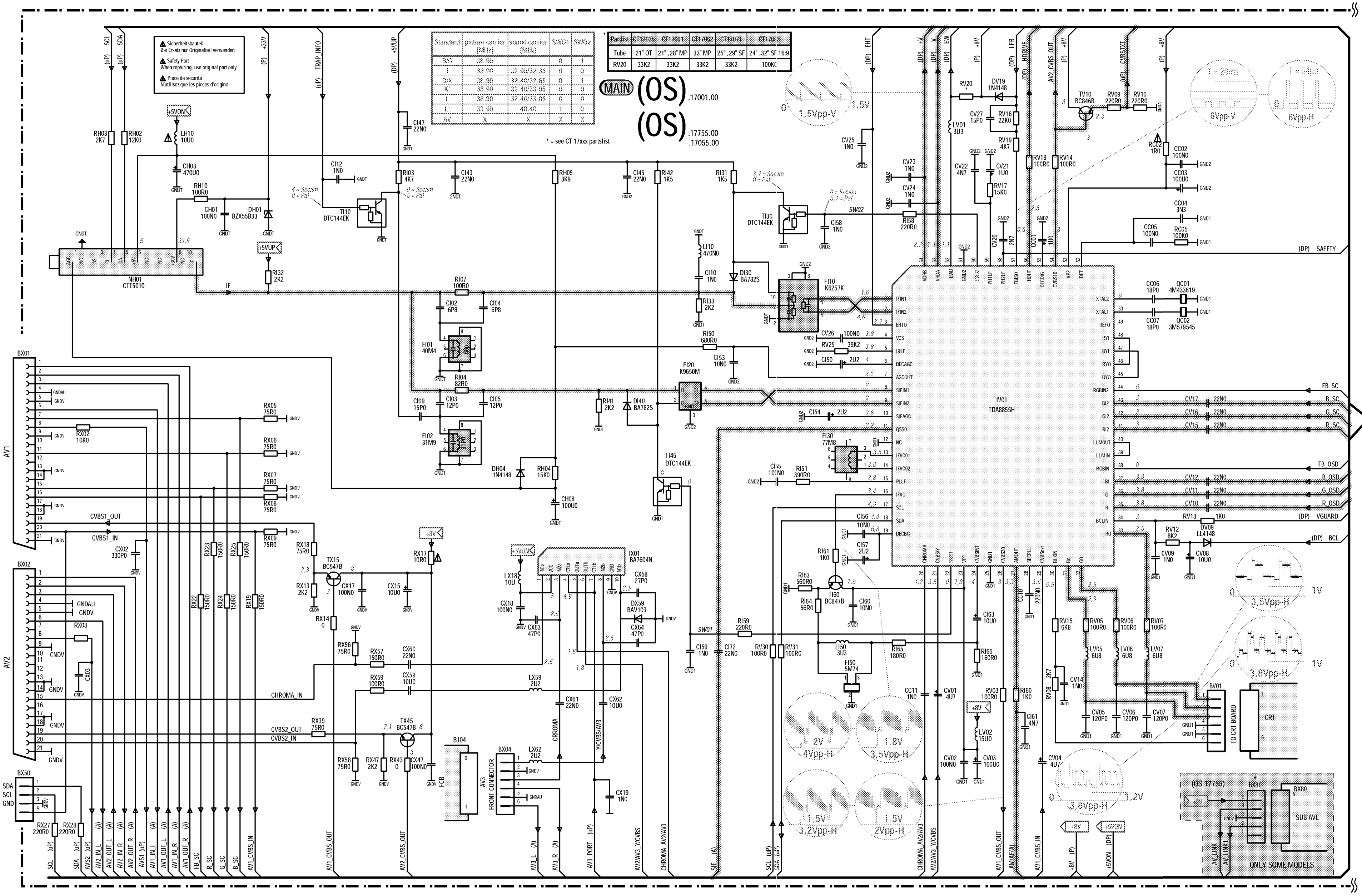
ADDR14
ADDR15
DAT0
DAT1
DAT2
DAT3
DAT4
DAT5
DAT6
DAT7
DSN
R/WN
GNDM
VDDM
OSCIN
OSCOUT
P3.7/CSO/RESETI
P3.6/ASN
P3.5
P3.4/RWN
P5.1/SDI/SDO/INT1
P5.0/SCK/INT2
P2.0/INT7
P2.3/INT6/VSO1
P2.4/NMI
P0.2
P0.1
P0.0
P4.7/PWM7/INT3
P4.6/PWM6
P4.5/PWM5
VDD
GND
P2.1/INT5/AIN1
P2.2/INT0/AIN2
P2.5/INT4/AIN3/VSO2
P4.4/PWM4
P4.3/PWM3
P4.2/PWM2
P4.1/PWM1
P4.0/PWM0
GNDA
CVBS1
CVBS2
TEST0
CVBSO
TXCF
JTRSTO
MCFM
RESET
PXFM
VDDA
WSCF
WSCR
HSYNC
VSYNC
R
G
B
FB
Led-Port
Stby-Port
Po-Port
Format-detect
(P) +8V
(P) +5VUP
(P) U_STBY
(P) +5V_UP
(OS) CVBSTXT
(P) RESET-
(DP) LFB
(DP) VFLB
(OS) R_OSD
(OS) G_OSD
(OS) B_OSD
(OS) FB_OSD
(DP) BCC
(OS) TRAP_INFO
(DP) FORMAT
(OS) AV3_PORT
(OS) AVS1
(OS) AVS2
(P) PO
(P) RESET-
(P) STBY_ON
STBY_ON (P)
POWER_FAIL (P)
MUTE- (A)
RESET_MSP- (A)
AV_LINK (OS)
SCL (OS,A)
SDA (OS,A)
6,8 = TV
7,1 = Stdby
6,7 = TV
5,3 = Stdby
6 = TV
7,1 = Stdby
0 = TV
7,1 = Stdby
4,8 = TV
0 = Stdby
0,3 = TV
0,15 = Stdby
0,7 = TV
0 = Stdby
4,8 = TV
0 = Mute
0 = TV
5 = Mute
0 = Stdby
0,2 = Stdby
(RP).17000.00
(RP).17001.00
MAIN
(RP).17900.00
(RP).17700.00
(RP).17701.00

RR44	4/3
RR48	16/9

* = value see partlist DP 17… 00

#	IR01	RR67	RR69
RP 17000 00	ST92R195 CUT 2.2 JAL (10592030)		
RP 17001 00	ST92R195 CUT 2.2 JAM (10588150)		
RP 17900 00	ST92R195 CUT 2.2 XXX (10588150)		
RP 17700 00	ST92R195 CUT 2.2 JAL (10592030)	47K0	4K7
RP 17701 00	ST92R195 CUT 2.2 JAM (10588150)	4K7	47K0

RF/FI/ SCART INTERFACE/VIDEO SIGNAL PROCESSING -HF/FI INTERFACE PERITELEVISION/TRAITEMENT LUMINANCE CHROMINANCE - HF/ZF/ SCART INTERFACE/VIDEO SIGNALVERARBEITUNG - RF/FI /PRESA PERITEL/ELABORAZIONE VIDEO - RF/FI /EUROCONECTOR / TRATAMENTO VIDEO


NH01
CTT5010
IF
IV01
TDA8855H
IX01
BA7604N
FI10
K6257K
FI20
K9650M
FI01
40M4
FI02
31M9
FI30
77M8
FI50
5M74
QC01
4M433619
QC02
3M579545
TV10
BC846B
TX15
BC547B
TX45
BC547B
TI60
BC847B
TI10
DTC144EK
TI30
DTC144EK
TI45
DTC144EK
BX01
AV1
BX02
AV2
BX50
BX04
FRONT-CONNECTOR
AV3
BJ04
FCB
BV01
TO CRT BOARD
CRT
BX80
SUB AVL
(OS 17755)
ONLY SOME MODELS
FB_SC
B_SC
G_SC
R_SC
FB_OSD
B_OSD
G_OSD
R_OSD
(DP) SAFETY
(DP) VGUARD
(DP) BCL
CVBS1_OUT
CVBS1_IN
CVBS2_OUT
CVBS2_IN
CHROMA_IN
SW01
SW02
0 = Secam
5 = Pal
3,7 = Secam
0 = Pal
8 = Secam
8,1 = Pal
1,5Vpp-V
6Vpp-V
6Vpp-H
T = 20ms
T = 64µs
3,5Vpp-H
3,8Vpp-H
4Vpp-H
3,5Vpp-H
3,2Vpp-H
2Vpp-H
3,8Vpp-H
SCL
SDA
AV2_IN_L
AV2_OUT_L
AV2_IN_R
AV2_OUT_R
AV1_IN_L
AV1_OUT_L
AV1_IN_R
AV1_OUT_R
AV1_CVBS_IN
AV1_CVBS_OUT
AV2_CVBS_OUT
AV3_L
AV3_R
AV3_PORT
AV2/AV3_Y/CVBS
CHROMA_AV2/AV3
SIF
AV1_CVBS_OUT
AM/AF(A)
AV1_CVBS_IN
+8V
+5VON
AV_LINK
AV_LINK1
EHT
HDRIVE
AV2_CVBS_OUT
CVBSTXT
TRAP_INFO
+5VUP
+33V

▲ Sicherheitsbauteil
Bei Ersatz nur Originalteil verwenden

▲ Safety Part
When repairing, use original part only

▲ Piece de securite
N'utilisez que les pieces d'origine

Standard	picture carrier [MHz]	sound carrier [MHz]	SW01	SW02
B/G	38.90		0	1
I	38.90	32.90/32.35	0	0
D/K	38.90	32.40/32.65	0	1
K'	38.90	32.40/33.05	0	0
L	38.90	32.40/33.05	0	0
L'	33.90	40.40	1	0
AV	X	X	X	X

*

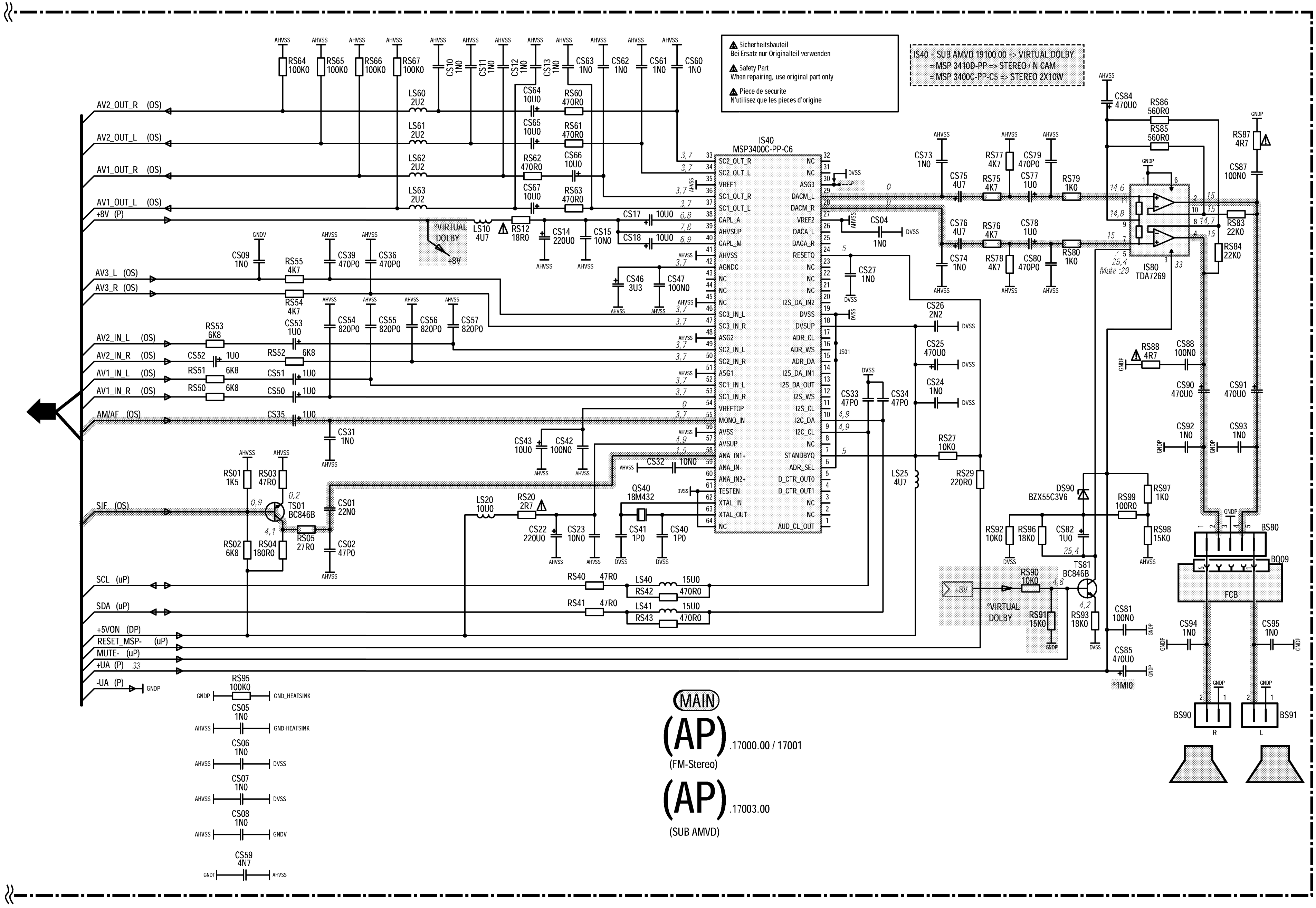
Partlist	CT17035	CT17061	CT17062	CT17071	CT17083
Tube	21" OT	21" ,28" MP	33" MP	25" ,29" SF	24" ,32" SF 16:9
RV20	33K2	33K2	33K2	33K2	100K0

* = see CT 17xxx partslist

MAIN (OS) .17001.00

(OS) .17755.00
.17055.00

AMPLIFIER SCHEMATIC DIAGRAM - SCHEMA DE L'AMPLIFICATEUR - SCHALTBILD AUDIO-SIGNALVERABEITUNG - SCHEMA DELL' AMPLIFICATORE
ESQUEMA DEL AMPLIFICADOR
(STEREO)



⚠ Sicherheitsbauteil
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⚠ Safety Part
When repairing, use original part only

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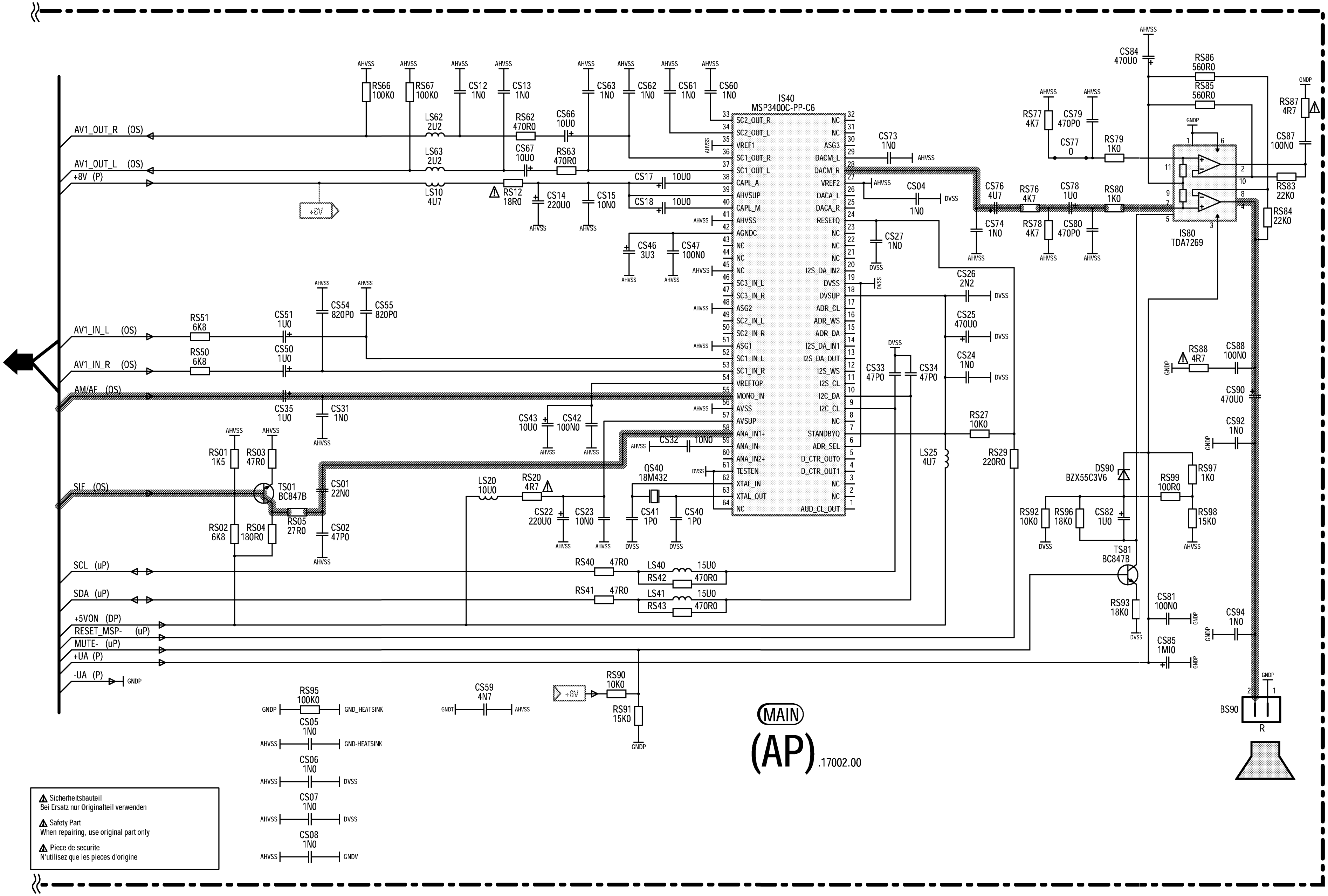
IS40 = SUB AMVD 19100 00 => VIRTUAL DOLBY
= MSP 3410D-PP => STEREO / NICAM
= MSP 3400C-PP-C5 => STEREO 2X10W

AV2_OUT_R (OS)
AV2_OUT_L (OS)
AV1_OUT_R (OS)
AV1_OUT_L (OS)
+8V (P)
AV3_L (OS)
AV3_R (OS)
AV2_IN_L (OS)
AV2_IN_R (OS)
AV1_IN_L (OS)
AV1_IN_R (OS)
AM/AF (OS)
SIF (OS)
SCL (uP)
SDA (uP)
+5VON (DP)
RESET_MSP- (uP)
MUTE- (uP)
+UA (P) 33
-UA (P)
GNDP
RS64 100K0
RS65 100K0
RS66 100K0
RS67 100K0
CS10 1N0
CS11 1N0
CS12 1N0
CS13 1N0
CS63 1N0
CS62 1N0
CS61 1N0
CS60 1N0
LS60 2U2
LS61 2U2
LS62 2U2
LS63 2U2
CS64 10U0
RS60 470R0
CS65 10U0
RS61 470R0
RS62 470R0
CS66 10U0
CS67 10U0
RS63 470R0
°VIRTUAL DOLBY
+8V
LS10 4U7
RS12 18R0
CS14 220U0
CS15 10N0
CS17 10U0
CS18 10U0
CS09 1N0
RS55 4K7
CS39 470P0
CS36 470P0
RS54 4K7
CS46 3U3
CS47 100N0
RS53 6K8
CS53 1U0
CS54 820P0
CS55 820P0
CS56 820P0
CS57 820P0
CS52 1U0
RS52 6K8
RS51 6K8
CS51 1U0
RS50 6K8
CS50 1U0
CS35 1U0
CS31 1N0
CS43 10U0
CS42 100N0
CS32 10N0
RS01 1K5
RS03 47R0
TS01 BC846B
CS01 22N0
RS02 6K8
RS04 180R0
RS05 27R0
CS02 47P0
LS20 10U0
RS20 2R7
CS22 220U0
CS23 10N0
QS40 18M432
CS41 1P0
CS40 1P0
RS40 47R0
RS41 47R0
LS40 15U0
RS42 470R0
LS41 15U0
RS43 470R0
IS40 MSP3400C-PP-C6
SC2_OUT_R
SC2_OUT_L
VREF1
SC1_OUT_R
SC1_OUT_L
CAPL_A
AHVSUP
CAPL_M
AHVSS
AGNDC
NC
SC3_IN_L
SC3_IN_R
ASG2
SC2_IN_L
SC2_IN_R
ASG1
SC1_IN_L
SC1_IN_R
VREFTOP
MONO_IN
AVSS
AVSUP
ANA_IN1+
ANA_IN-
ANA_IN2+
TESTEN
XTAL_IN
XTAL_OUT
ASG3
DACM_L
DACM_R
VREF2
DACA_L
DACA_R
RESETQ
I2S_DA_IN2
DVSS
DVSUP
ADR_CL
ADR_WS
ADR_DA
I2S_DA_IN1
I2S_DA_OUT
I2S_WS
I2S_CL
I2C_DA
I2C_CL
STANDBYQ
ADR_SEL
D_CTR_OUT0
D_CTR_OUT1
AUD_CL_OUT
JS01
CS04 1N0
CS27 1N0
CS26 2N2
CS25 470U0
CS24 1N0
CS33 47P0
CS34 47P0
RS27 10K0
RS29 220R0
LS25 4U7
CS73 1N0
CS75 4U7
RS77 4K7
RS75 4K7
CS79 470P0
CS77 1U0
RS79 1K0
CS76 4U7
RS76 4K7
CS78 1U0
CS74 1N0
RS78 4K7
CS80 470P0
RS80 1K0
CS84 470U0
RS86 560R0
RS85 560R0
RS87 4R7
CS87 100N0
RS83 22K0
RS84 22K0
IS80 TDA7269
Mute :29
RS88 4R7
CS88 100N0
CS90 470U0
CS91 470U0
CS92 1N0
CS93 1N0
DS90 BZX55C3V6
RS99 100R0
RS97 1K0
RS92 10K0
RS96 18K0
CS82 1U0
RS98 15K0
BS80
BQ09
FCB
RS90 10K0
TS81 BC846B
°VIRTUAL DOLBY
RS91 15K0
RS93 18K0
CS81 100N0
CS85 470U0
°1MI0
CS94 1N0
CS95 1N0
BS90 R
BS91 L
RS95 100K0 GND_HEATSINK
CS05 1N0 GND-HEATSINK
CS06 1N0 DVSS
CS07 1N0 DVSS
CS08 1N0 GNDV
CS59 4N7 GNDT AHVSS
MAIN
(AP).17000.00 / 17001
(FM-Stereo)
(AP).17003.00
(SUB AMVD)

AMPLIFIER SCHEMATIC DIAGRAM - SCHEMA DE L'AMPLIFICATEUR - SCHALTBILD AUDIO-SIGNALVERABEITUNG - SCHEMA DELL' AMPLIFICATORE - ESQUEMA DEL AMPLIFICADOR
(MONO)

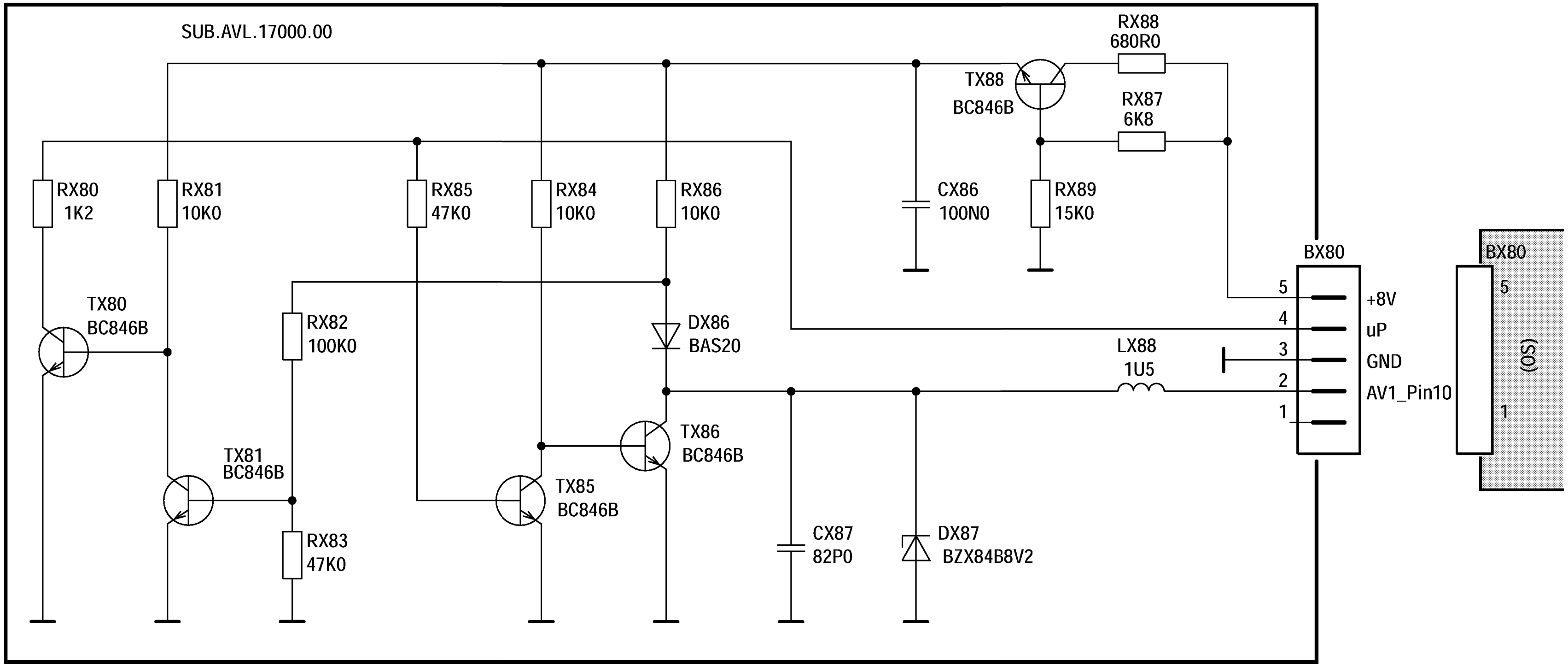

AV1_OUT_R (OS)
AV1_OUT_L (OS)
+8V (P)
AV1_IN_L (OS)
AV1_IN_R (OS)
AM/AF (OS)
SIF (OS)
SCL (uP)
SDA (uP)
+5VON (DP)
RESET_MSP- (uP)
MUTE- (uP)
+UA (P)
-UA (P)
GNDP
AHVSS
DVSS
RS66 100K0
RS67 100K0
CS12 1N0
CS13 1N0
LS62 2U2
LS63 2U2
LS10 4U7
RS62 470R0
CS66 10U0
CS67 10U0
RS63 470R0
RS12 18R0
CS14 220U0
CS15 10N0
CS63 1N0
CS62 1N0
CS61 1N0
CS60 1N0
+8V
CS17 10U0
CS18 10U0
CS46 3U3
CS47 100N0
IS40
MSP3400C-PP-C6
SC2_OUT_R
SC2_OUT_L
VREF1
SC1_OUT_R
SC1_OUT_L
CAPL_A
AHVSUP
CAPL_M
AHVSS
AGNDC
NC
SC3_IN_L
SC3_IN_R
ASG2
SC2_IN_L
SC2_IN_R
ASG1
SC1_IN_L
SC1_IN_R
VREFTOP
MONO_IN
AVSS
AVSUP
ANA_IN1+
ANA_IN-
ANA_IN2+
TESTEN
XTAL_IN
XTAL_OUT
ASG3
DACM_L
DACM_R
VREF2
DACA_L
DACA_R
RESETQ
I2S_DA_IN2
DVSS
DVSUP
ADR_CL
ADR_WS
ADR_DA
I2S_DA_IN1
I2S_DA_OUT
I2S_WS
I2S_CL
I2C_DA
I2C_CL
STANDBYQ
ADR_SEL
D_CTR_OUT0
D_CTR_OUT1
AUD_CL_OUT
CS73 1N0
CS04 1N0
CS27 1N0
CS26 2N2
CS25 470U0
CS24 1N0
CS33 47P0
CS34 47P0
RS27 10K0
RS29 220R0
LS25 4U7
CS54 820P0
CS55 820P0
RS51 6K8
CS51 1U0
RS50 6K8
CS50 1U0
CS35 1U0
CS31 1N0
CS43 10U0
CS42 100N0
CS32 10N0
QS40 18M432
CS41 1P0
CS40 1P0
LS20 10U0
RS20 4R7
CS22 220U0
CS23 10N0
RS01 1K5
RS03 47R0
TS01 BC847B
RS05 27R0
CS01 22N0
RS02 6K8
RS04 180R0
CS02 47P0
RS40 47R0
LS40 15U0
RS42 470R0
RS41 47R0
LS41 15U0
RS43 470R0
RS90 10K0
RS91 15K0
RS95 100K0
GND_HEATSINK
CS05 1N0
GND-HEATSINK
CS06 1N0
CS07 1N0
CS08 1N0
GNDV
CS59 4N7
GNDT
CS84 470U0
RS86 560R0
RS85 560R0
RS87 4R7
CS87 100N0
RS77 4K7
CS79 470P0
CS77 0
RS79 1K0
CS76 4U7
RS76 4K7
CS78 1U0
RS80 1K0
CS74 1N0
RS78 4K7
CS80 470P0
IS80 TDA7269
RS83 22K0
RS84 22K0
RS88 4R7
CS88 100N0
CS90 470U0
CS92 1N0
DS90 BZX55C3V6
RS99 100R0
RS97 1K0
RS92 10K0
RS96 18K0
CS82 1U0
RS98 15K0
TS81 BC847B
RS93 18K0
CS81 100N0
CS85 1MI0
CS94 1N0
BS90
R
MAIN
(AP) .17002.00

⚠ Sicherheitsbauteil
Bei Ersatz nur Originalteil verwenden

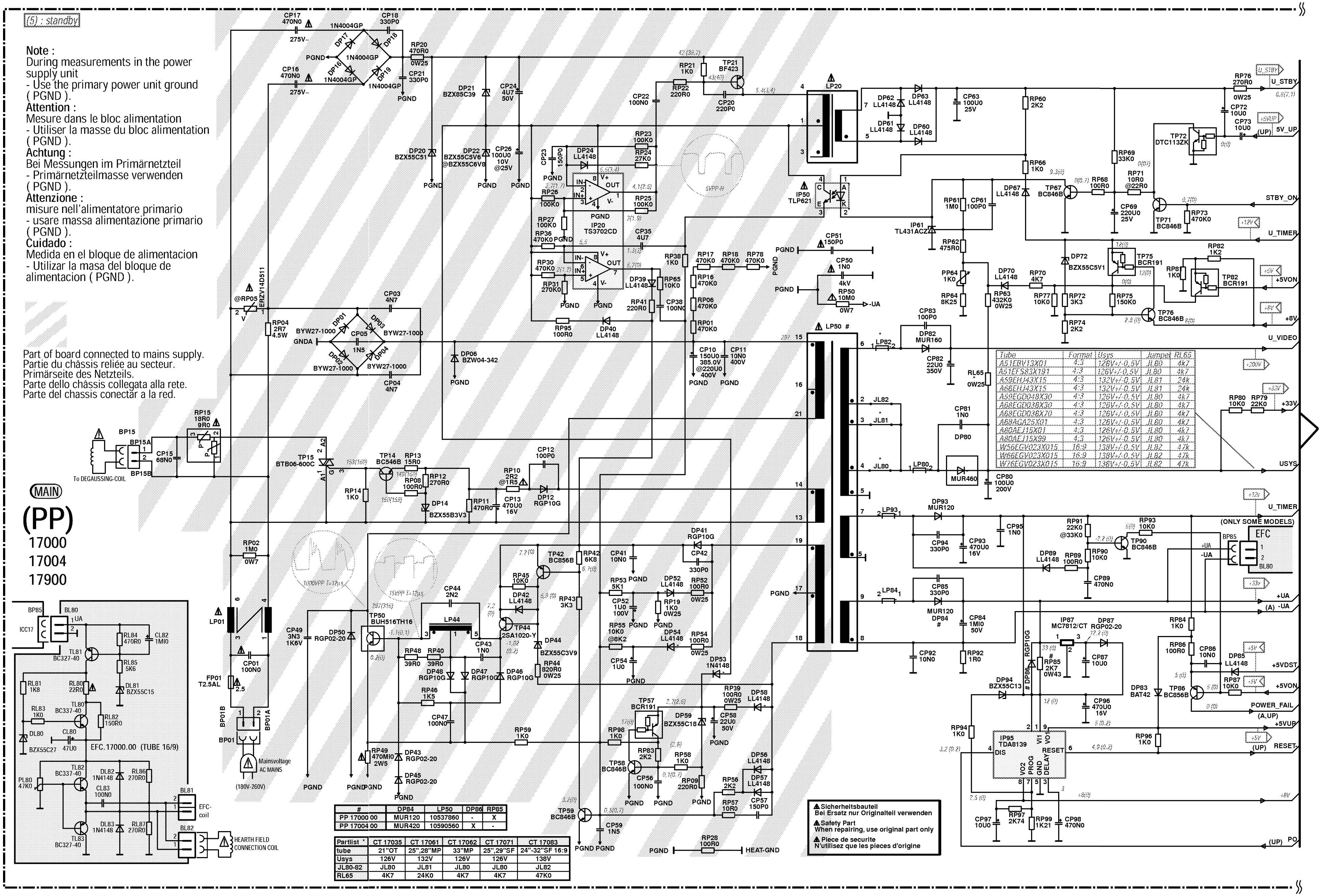
⚠ Safety Part
When repairing, use original part only

⚠ Piece de securite
N'utilisez que les pieces d'origine

SUB AVL 17000


SUB.AVL.17000.00
RX88
680R0
TX88
BC846B
RX87
6K8
RX80
1K2
RX81
10K0
RX85
47K0
RX84
10K0
RX86
10K0
CX86
100N0
RX89
15K0
BX80
BX80
TX80
BC846B
RX82
100K0
DX86
BAS20
5
+8V
4
uP
3
GND
2
AV1_Pin10
1
LX88
1U5
(OS)
5
1
TX86
BC846B
TX81
BC846B
TX85
BC846B
RX83
47K0
CX87
82P0
DX87
BZX84B8V2

POWER SUPPLY - ALIMENTATION - NETZTEIL - ALIMENTAZIONE - ALIMENTACIÓN


(5) : standby
CP17 470N0 275V~
CP16 470N0 275V~
CP18 330P0
1N4004GP
DP17 DP18 DP16 DP19
RP20 470R0 0W25
CP21 330P0
PGND
DP21 BZX85C39
CP24 4U7 50V
DP20 BZX55C51
DP22 BZX55C5V6 @BZX55C6V8
CP26 100U0 10V @25V
RP21 1K0
TP21 BF423
CP22 100N0
RP22 220R0
CP20 220P0
CP23 150P0
DP24 LL4148
RP23 100K0
RP24 27K0
RP26 100K0
RP25 100K0
IP20 TS3702CD
RP27 100K0
RP36 470K0
CP35 4U7
RP30 470K0
RP31 270K0
RP95 100R0
DP40 LL4148
DP39 LL4148
RP65 10K0
RP41 220R0
CP38 100N0
RP38 1K0
RP17 470K0
RP18 470K0
RP78 470K0
RP16 470K0
RP06 470K0
RP01 470K0
CP10 150U0 385.0V @220U0 400V
CP11 10N0 400V
CP51 150P0
CP50 1N0 4kV
RP50 10M0 0W7
-UA
5VPP-H
LP20
IP50 TLP621
DP62 LL4148
DP63 LL4148
DP61 LL4148
DP60 LL4148
CP63 100U0 25V
RP60 2K2
RP66 1K0
RP69 33K0
RP76 270R0 0W25
U_STBY
CP72 10U0
CP73 10U0
5V_UP
TP72 DTC113ZK
RP61 1M0
CP61 100P0
DP67 LL4148
TP67 BC846B
RP68 100R0
RP71 10R0 @22R0
CP69 220U0 25V
TP71 BC846B
RP73 470K0
STBY_ON
U_TIMER
IP61 TL431ACZ
RP62 475R0
PP64 1K0
RP64 8K25
DP70 LL4148
RP70 4K7
RP63 432K0 0W25
DP72 BZX55C5V1
TP75 BCR191
RP82 1K2
RP81 1K0
TP82 BCR191
+5VON
RP77 10K0
RP72 3K3
RP75 150K0
TP76 BC846B
RP74 2K2
+8V
U_VIDEO
LP50 #
CP83 100P0
DP82 MUR160
LP82
CP82 22U0 350V
RL65 * 0W25
JL82
JL81
JL80
CP81 1N0
DP80
LP80
MUR460
CP80 100U0 200V
RP80 10K0
RP79 22K0
+33V
USYS
DP93 MUR120
LP93
CP95 1N0
CP94 330P0
CP93 470U0 16V
RP91 22K0 @33K0
RP93 10K0
TP90 BC846B
DP89 LL4148
RP89 100R0
RP90 10K0
CP89 470N0
(ONLY SOME MODELS)
EFC
BP85
BL80
+UA
-UA
(A)
LP84
CP85 330P0
MUR120 DP84 #
CP84 1MI0 50V
CP92 10N0
RP92 1R0
IP87 MC7812/CT
DP87 RGP02-20
RP85 2K7 0W43
CP87 10U0
DP86 RGP10G
DP94 BZX55C13
CP96 470U0 16V
DP83 BAT42
TP86 BC856B
RP84 1K0
RP86 100R0
CP86 10N0
DP85 LL4148
RP87 10K0
+5VDST
+5VON
POWER_FAIL
(A,UP)
+5VUP
IP95 TDA8139
DIS RESET VO2 PROG GND DELAY VI1 VO1
RP94 1K0
RP96 1K0
RESET
(UP)
CP97 10U0
RP97 2K74
RP99 1K21
CP98 470N0
PO
(UP)
@RP05 ERZV14D511
RP04 2R7 4.5W
CP03 4N7
DP01 DP03 DP02 DP04
BYW27-1000
CP05 1N5
GNDA
CP04 4N7
DP06 BZW04-342
RP15 18R0 9R0
BP15
BP15A
BP15B
CP15 68N0
To DEGAUSSING-COIL
TP15 BTB06-600C
A1 A2 G
TP14 BC546B
RP13 15R0
RP12 270R0
RP08 100R0
RP14 1K0
DP14 BZX55B3V3
RP11 470R0
CP12 100P0
RP10 2R2 @1R5
CP13 470U0 16V
DP12 RGP10G
MAIN
(PP)
17000
17004
17900
RP02 1M0 0W7
LP01
CP01 100N0
FP01 T2.5AL
BP01
BP01A
BP01B
Mainsvoltage AC MAINS (180V-260V)
CP49 3N3 1K6V
DP50 RGP02-20
TP50 BUH516TH16
CP44 2N2
LP44
TP44 2SA1020-Y
CP43 1N0
RP48 39R0
RP40 39R0
DP48 RGP10G
DP47 RGP10G
DP46 RGP10G
RP46 1K5
CP47 100N0
RP49 470MI0 2W5
DP43 RGP02-20
DP45 RGP02-20
TP42 BC856B
RP42 6K8
RP45 10K0
DP42 LL4148
RP43 3K3
DP44 BZX55C3V9
RP44 820R0 0W25
CP41 10N0
RP53 5K1
CP52 1U0 100V
RP55 10K0 @8K2
CP54 1U0
DP52 LL4148
RP19 1K0 0W25
RP52 100R0 0W25
DP54 LL4148
RP54 100R0 0W25
DP41 RGP10G
CP42 330P0
DP53 1N4148
RP59 1K0
TP57 BCR191
RP98 1K0
RP83 2K2
TP58 BC846B
CP56 100N0
RP58 1K0
RP09 220R0
DP59 BZX55C18
CP58 22U0 50V
RP39 100R0 0W25
DP58 LL4148
DP56 LL4148
RP56 2K2
DP57 LL4148
RP57 10R0
CP57 150P0
TP59 BC846B
CP59 1N5
RP28 100R0
HEAT-GND
BP85 BL80 ICC17 UA
RL84 470R0
CL82 1MI0
TL81 BC327-40
RL85 5K6
DL81 BZX55C15
RL81 1K8
RL80 22R0
TL80 BC337-40
RL83 1K0
RL82 150R0
DL80 BZX55C27
CL80 47U0
EFC.17000.00 (TUBE 16/9)
PL80 47K0
TL82 BC337-40
DL82 1N4148
RL86 270R0
CL83 100N0
DL83 1N4148
RL87 270R0
TL83 BC327-40
BL81 EFC-coil
BL82 HEARTH FIELD CONNECTION COIL

Note :
During measurements in the power supply unit
- Use the primary power unit ground (PGND).

Attention :
Mesure dans le bloc alimentation
- Utiliser la masse du bloc alimentation (PGND).

Achtung :
Bei Messungen im Primärnetzteil
- Primärnetzteilmasse verwenden (PGND).

Attenzione :
misure nell'alimentatore primario
- usare massa alimentazione primario (PGND).

Cuidado :
Medida en el bloque de alimentacion
- Utilizar la masa del bloque de alimentacion (PGND).

Part of board connected to mains supply.
Partie du châssis reliée au secteur.
Primärseite des Netzteils.
Parte dello châssis collegata alla rete.
Parte del chassis conectar a la red.

Tube	Format	Usys	Jumper	RL65
A51EBV13X01	4:3	128V+/-0,5V	JL80	4k7
A51EFS83X191	4:3	126V+/-0,5V	JL80	4k7
A59EHJ43X15	4:3	132V+/-0,5V	JL81	24k
A66EHJ43X15	4:3	132V+/-0,5V	JL81	24k
A59EGD048X30	4:3	126V+/-0,5V	JL80	4k7
A68EGD038X30	4:3	126V+/-0,5V	JL80	4k7
A68EGD038X70	4:3	126V+/-0,5V	JL80	4k7
A68AGA25X01	4:3	126V+/-0,5V	JL80	4k7
A80AEJ15X01	4:3	126V+/-0,5V	JL80	4k7
A80AEJ15X99	4:3	126V+/-0,5V	JL80	4k7
W56EGV023X015	16:9	138V+/-0,5V	JL82	47k
W66EGV023X015	16:9	138V+/-0,5V	JL82	47k
W76EGV023X015	16:9	138V+/-0,5V	JL82	47k

#	DP84	LP50	DP86	RP85
PP 17000 00	MUR120	10537860	-	X
PP 17004 00	MUR420	10590560	X	-

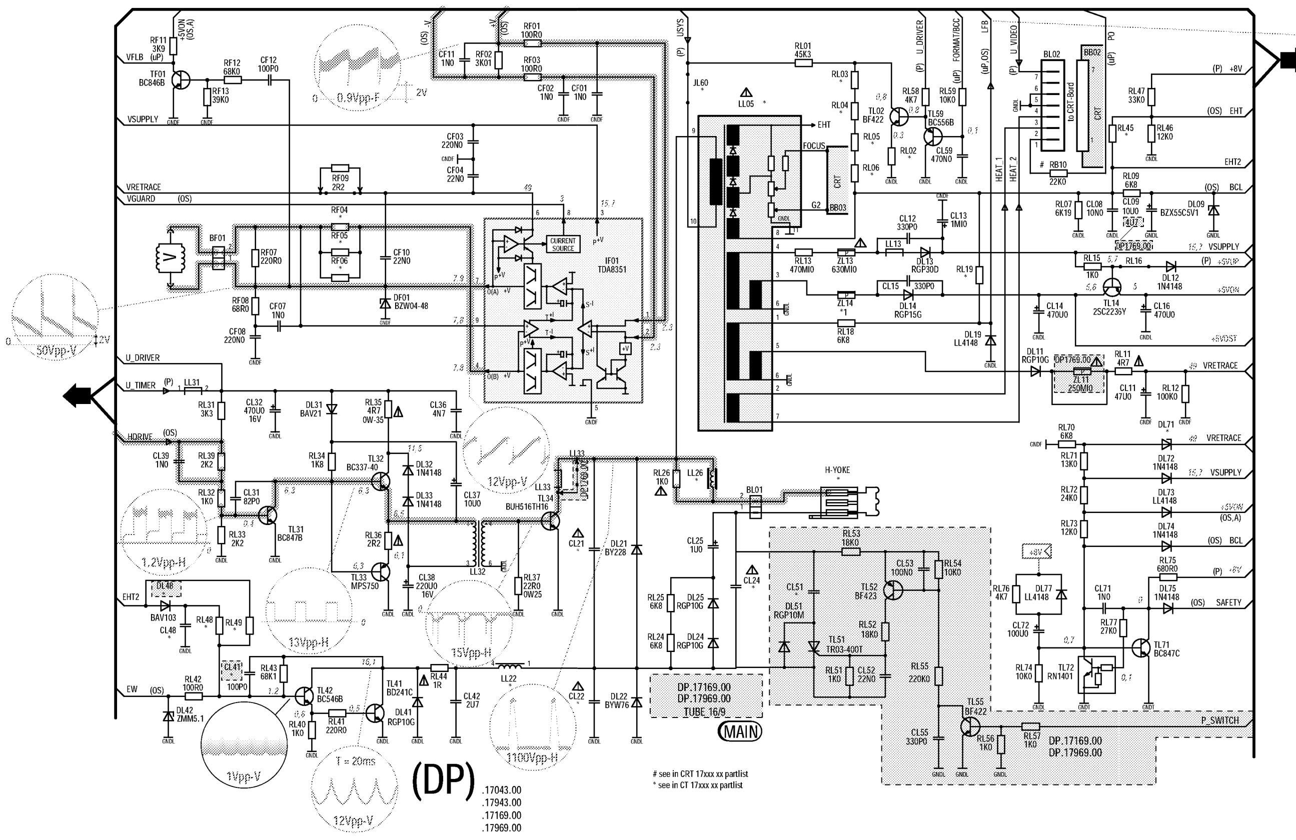
Partlist *	CT 17035	CT 17061	CT 17062	CT 17071	CT 17083
tube	21"OT	25",28"MP	33"MP	25",29"SF	24"-32"SF 16:9
Usys	126V	132V	126V	126V	138V
JL80-82	JL80	JL81	JL80	JL80	JL82
RL65	4K7	24K0	4K7	4K7	47K0

⚠ Sicherheitsbauteil
Bei Ersatz nur Originalteil verwenden

⚠ Safety Part
When repairing, use original part only

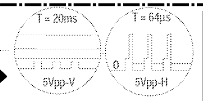
⚠ Piece de securite
N'utilisez que les pieces d'origine

SCANNING - BALAYAGE - ABLENKUNG - BARRIDO - SCANSIONE



.17043.00
.17943.00
.17169.00
.17969.00

see in CRT 17xxx xx partlist
* see in CT 17xxx xx partlist



	TV PSD CT 17062 26
	TV ASY A80AEJ15X01 (A) 00
CL21	16N2F +3.5% -3.5% 1K6V
CL21	16N5F +3.5% -3.5% 2K0V
CL21A	16N5F +3.5% -3.5% 1K6V
CL22	30N0F +5% -5% 400.0V
CL22	30N0F +5% -5% 1K0V
CL24	560N0F +5% -5% 250.0V
CL41	100P0F +10% -10% 50.0V
CL48	10N0F +10% 63.0V
CL48	10N0F +10% 100.0V
DL48	D-SLP BAV103 200.0V
DL71	D-ZENER BZX55B24 24V 500MI0W
DL71	D-ZENER BZX55C24 24V 500MI0W
DL71	D-ZENER BZX55C30 30V 500MI0W
JL60	WIREBARE 22
JL80	0 OHM +0% 100MI0W
LB02	LF 32U0H +4% -4%
LL05	TF-DST TDS29
LL22	LF 650U0H +5% -5%
LL22	LF 650U0H +5% -5% EAST-WEST
LL26	LL 26U5H +10%
LL26	LL 22U0H +10%
RF05	1R0 OHM +1% 700MI0W
RF05	1R21 OHM +1% 700MI0W
RF06	10R0 OHM +1% +100PPM/'C 100MI0W
RL02	6K2 OHM +5% 100MI0W 1004 A3 00
RL02	6K04 OHM +1% +100PPM/'C 100MI0W
RL03	4K75 OHM +1% +100PPM/'C 100MI0W
RL04	4K75 OHM +1% +100PPM/'C 100MI0W
RL05	4K75 OHM +1% +100PPM/'C 100MI0W
RL06	6K81 OHM +1% +100PPM/'C 100MI0W
RL06	10K0 OHM +1% +100PPM/'C 100MI0W
RL19	13K0 OHM +5% 100MI0W
RL45	150K0 OHM +5% 100MI0W
RL48	76K8 OHM +1% +100PPM/'C 100MI0W
RL49	560K0 OHM +5% 100MI0W
RL65	4K7 OHM +5% 250MI0W
RV20	23K7 OHM +1% 250MI0W
RV20	33K2 OHM +1% 250MI0W

	TV PSD CT 17035 26
	TV ASY A51EFS83X191 03
CL21	8N3F +3.5% -3.5% 2K0V
CL21	8N3F +3.5% -3.5% 1K6V
CL21	8N8F +3.5% -3.5% 1K6V
CL21A	8N3F +3.5% -3.5% 1K6V
CL22	33N0F +5% -5% 400.0V
CL22	30N0F +5% -5% 400.0V
CL22	33N0F +5% -5% 1K0V
CL24	440N0F +5% -5% 400.0V
CL24	440N0F +5% -5% 250.0V
CL24	440N0F +5% -5% 250.0V
CL24A	440N0F +5% -5% 250.0V
CL41	1N0F +10% -10% 50.0V
CL48	100N0F +5% 63.0V
DL71	D-ZENER BZX55C20 20V 500MI0W
DL71	D-ZENER BZX55C24 24V 500MI0W
DL71	D-ZENER BZX55C30 30V 500MI0W
JL60	WIREBARE 22
JL80	0 OHM +0%
JP81	0 OHM +0%
LB02	LF 18U0H +7% -7%
LB02	LF 21U0H +5% -5%
LL05	F-DST M30FBC3 10555640 3087
LL22	LF 650U0H +5% -5%
LL22	LF 650U0H +5% -5% EAST-WEST
LL26	LL 85U0H 2519 A0
LL26	LL 39U0H +10%
RF04	1R21 OHM +1% 700MI0W
RF05	1R21 OHM +1% 700MI0W
RF05	1R5 OHM +1% 700MI0W
RF06	10R0 OHM +1% +100PPM/'C
RL02	6K2 OHM +5%
RL02	6K04 OHM +1% +100PPM/'C
RL03	10K0 OHM +1% +100PPM/'C
RL04	10K0 OHM +1% +100PPM/'C
RL04	20K0 OHM +1% +100PPM/'C
RL05	10K0 OHM +1% +100PPM/'C
RL0	20K0 OHM +1% +100PPM/'C
RL06	10K0 OHM +1% +100PPM/'C
RL06	3K32 OHM +1% +100PPM/'C
RL11	4R7 OHM +10% 250MI0W
RL11	4R7 OHM +5% 250MI0W
RL19	18K0 OHM +5%
RL43	68K1 OHM +1% 250MI0W
RL43	68K1 OHM +1% +100PPM/'C
RL45	82K0 OHM +5%
RL45	110K0 OHM +5%
RL45	470K0 OHM +5%
RL46	12K0 OHM +5%
RL47	33K0 OHM +5%
RL48	100K0 OHM +1% +100PPM/'C
RL49	76K8 OHM +1% +100PPM/'C
RL49	60K4 OHM +1% +100PPM/'C
RL64	8K25 OHM +1% +100PPM/'C
RL65	4K7 OHM +5% 250MI0W
RV20	3K7 OHM +1% 250MI0W
RV20	33K2 OHM +1% 250MI0W
RV20	33K2 OHM +1% +100PPM/'C
ZL13	MP63 630MI0 A 65.0V

	TV ASY A59EHJ43X15 00
	TV ASY A66EHJ43X15 00
	TV PSD CT 17061 32
CL21	14N4F +3.5% -3.5% 1K6V
CL21	14N4F +3.5% -3.5% 1K6V
CL21	14N0F +3.5% -3.5% 1K5V
CL22	30N0F +5% -5% 400.0V
CL22	30N0F +5% -5% 400.0V
CL22	30N0F +5% -5% 1K0V
CL24	440N0F +5% -5% 400.0V
CL24	470N0F +5% -5% 250.0V
CL24	440N0F +5% -5% 250.0V
CL24	440N0F +5% -5% 250.0V
CL24A	440N0F +5% -5% 250.0V
CL41	100P0F +10% -10% 50.0V
CL48	10N0F +10% 63.0V
CL48	10N0F +10% 100.0V
DL48	BAV103 200.0V
DL71	BZX55B24 24V 500MI0W
DL71	BZX55C24 24V 500MI0W
DL71	BZX55C30 30V 500MI0W
JL60	WIREBARE 22
JL81	0 OHM +0% 100MI0W
JP80	0 OHM +0% 100MI0W
LB02	13U5H +5% -5%
LB02	18U0H +7% -7%
LB02	21U0H +5% -5%
LB02	21U0H +5% -5%
LL05	TF-DST M30FBC3 10546610 3087
LL05	TF-DST M30FBC3 10600190 3087
LL05	TF-DST M30FBC3 10608680 3087
LL22	650U0H +5% -5%
LL22	650U0H +5% -5% EAST-WEST
LL26	26U5H +10%
LL26	30U5H 2519 A0
RF04	1R21 OHM +1% 700MI0W
RF05	1R0 OHM +1% 700MI0W
RF05	1R21 OHM +1% 700MI0W
RF06	12R1 OHM +1% +100PPM/'C 100MI0W
RL02	10K0 OHM +5% 100MI0W
RL02	6K04 OHM +1% +100PPM/'C 100MI0W
RL02	499R0 OHM +1% +100PPM/'C 100MI0W
RL03	10K0 OHM +1% +100PPM/'C 100MI0W
RL03	11K5 OHM +1% +100PPM/'C 100MI0W
RL04	10K0 OHM +1% +100PPM/'C 100MI0W
RL04	20K0 OHM +1% +100PPM/'C 100MI0W
RL04	11K5 OHM +1% +100PPM/'C 100MI0W
RL05	10K0 OHM +1% +100PPM/'C 100MI0W
RL05	20K0 OHM +1% +100PPM/'C 100MI0W
RL05	11K5 OHM +1% +100PPM/'C 100MI0W
RL06	8K25 OHM +1% +100PPM/'C 100MI0W
RL06	4K75 OHM +1% +100PPM/'C 100MI0W
RL06	9K09 OHM +1% +100PPM/'C 100MI0W
RL06	11K5 OHM +1% +100PPM/'C 100MI0W
RL11	4R7 OHM +10% 250MI0W
RL11	4R7 OHM +5% 250MI0W
RL19	22K0 OHM +5% 100MI0W
RL19	33K0 OHM +5% 100MI0W
RL43	68K1 OHM +1% 250MI0W
RL43	68K1 OHM +1% 250MI0W
RL43	68K1 OHM +1% +100PPM/'C 100MI0W
RL45	180K0 OHM +5% 100MI0W
RL45	270K0 OHM +5% 100MI0W
RL46	12K0 OHM +5% 100MI0W
RL47	33K0 OHM +5% 100MI0W
RL48	76K8 OHM +1% +100PPM/'C 100MI0W
RL48	60K4 OHM +1% +100PPM/'C 100MI0W
RL64	8K25 OHM +1% +100PPM/'C 100MI0W
RL65	24K0 OHM +5% 250MI0W
RV20	33K2 OHM +1% 250MI0W
RV20	33K2 OHM +1% +100PPM/'C 100MI0W
ZL13	MP63 630MI0 A 65.0V

	TV PSD CT 17083 38
	TV ASY W56EGV023X015 56 01
	TV ASY W56EGV023X015 56 01
	TV ASY W66EGV023X015 66 00
	TV ASY W66EGV023X015 66 00
	TV ASY W66EGV023X015 66 01
	TV ASY W76EGV023X015 (A) 00
	TV ASY W76EGV023X015 (A) 00
CL2	14N4F +3.5% -3.5% 1K6V
CL21	15N5F +3.5% -3.5% 1K6V
CL21	15N0F +3.5% -3.5% 2K0V
CL21A	15N0F +3.5% -3.5% 1K6V
CL22	27N0F +5% -5% 400.0V
CL22	27N0F +5% -5% 1K0V
CL24	440N0F +5% -5% 250.0V
CL24	440N0F +5% -5% 400.0V
CL24	440N0F +5% -5% 250.0V
CL41	100P0F +10% -10% 50.0V
CL48	100N0F +5% 63.0V
CL51	90N0F +5% -5% 250.0V
CL51	290N0F +5% -5% 400.0V
DL48	D-SLP BAV103 200.0V
DL71	D-ZENER BZX55C20 20V 500MI0W
DL71	D-ZENER BZX55C24 24V 500MI0W
JL60	WIREBARE 22
JL82	0 OHM +0%
JP80	0 OHM +0%
JP81	0 OHM +0%
LB02	LF 29U0H +4% -4%
LB02	LF 32U0H +4% -4%
LL05	TF-DST TDS29
LL22	LF 650U0H +5% -5%
LL22	LF 650U0H +5% -5% EAST-WEST
LL26	LL 26U5H +10%
LL26	LL 30U5H 2519 A0
RF04	1R21 OHM +1% 700MI0W
RF05	1R21 OHM +1% 700MI0W
RF05	1R5 OHM +1% 700MI0W
RF06	10R0 OHM +1% +100PPM/'C
RL02	4K99 OHM +1% +100PPM/'C
RL02	4K75 OHM +1% +100PPM/'C
RL02	6K04 OHM +1% +100PPM/'C
RL03	6K49 OHM +1% +100PPM/'C
RL03	8K87 OHM +1% +100PPM/'C
RL04	6K49 OHM +1% +100PPM/'C
RL04	8K87 OHM +1% +100PPM/'C
RL04	10K0 OHM +1% +100PPM/'C
RL05	6K49 OHM +1% +100PPM/'C
RL05	8K87 OHM +1% +100PPM/'C
RL05	10K0 OHM +1% +100PPM/'C
RL06	6K49 OHM +1% +100PPM/'C
RL06	8K87 OHM +1% +100PPM/'C
RL06	3K32 OHM +1% +100PPM/'C
RL06	2K37 OHM +1% +100PPM/'C
RL11	4R7 OHM +10% 250MI0W
RL11	4R7 OHM +5% 250MI0W
RL19	15K0 OHM +5%
RL19	13K0 OHM +5%
RL43	68K1 OHM +1% 250MI0W
RL43	68K1 OHM +1% +100PPM/'C
RL45	470K0 OHM +5%
RL45	390K0 OHM +5%
RL46	12K0 OHM +5%
RL47	33K0 OHM +5%
RL48	1K0 OHM +5%
RL48	220K0 OHM +5%
RL48	237K0 OHM +1% +100PPM/'C
RL49	180K0 OHM +5%
RL49	143K0 OHM +1% +100PPM/'C
RL64	8K25 OHM +1% +100PPM/'C
RL65	47K0 OHM +5% 250MI0W
RV20	100K0 OHM +1% 250MI0W
RV20	33K2 OHM +1% +100PPM/'C
RV20	100K0 OHM +1% 250MI0W
ZL13	MP63 630MI0 A 65.0V

⚠ Indicates critical safety components, and identical components should be used for replacement. Only then can the operational safety be garanteed.

Le remplacement des éléments de sécurité (repérés avec le symbole ⚠) par des composants non homologués selon la Norme CEI 65 entraine la non-conformité de l'appareil.
Dans ce cas, la responsabilité du fabricant n'est plus engagée.

Wenn Sicherheitsteile (mit dem Symbol ⚠ gekennzeichnet) durch nicht normgerechte Teile ersetzt werden, erlischt die Haftung des Herstellers.

La sostituzione degli elementi di sicurezza (contrassegnati con il segno ⚠) con componenti non omologati secondo la norma CEI 65 comporta la non conformitá dell'apparecchio.
In tal caso é "esclusa la responsabilità" del costruttore.

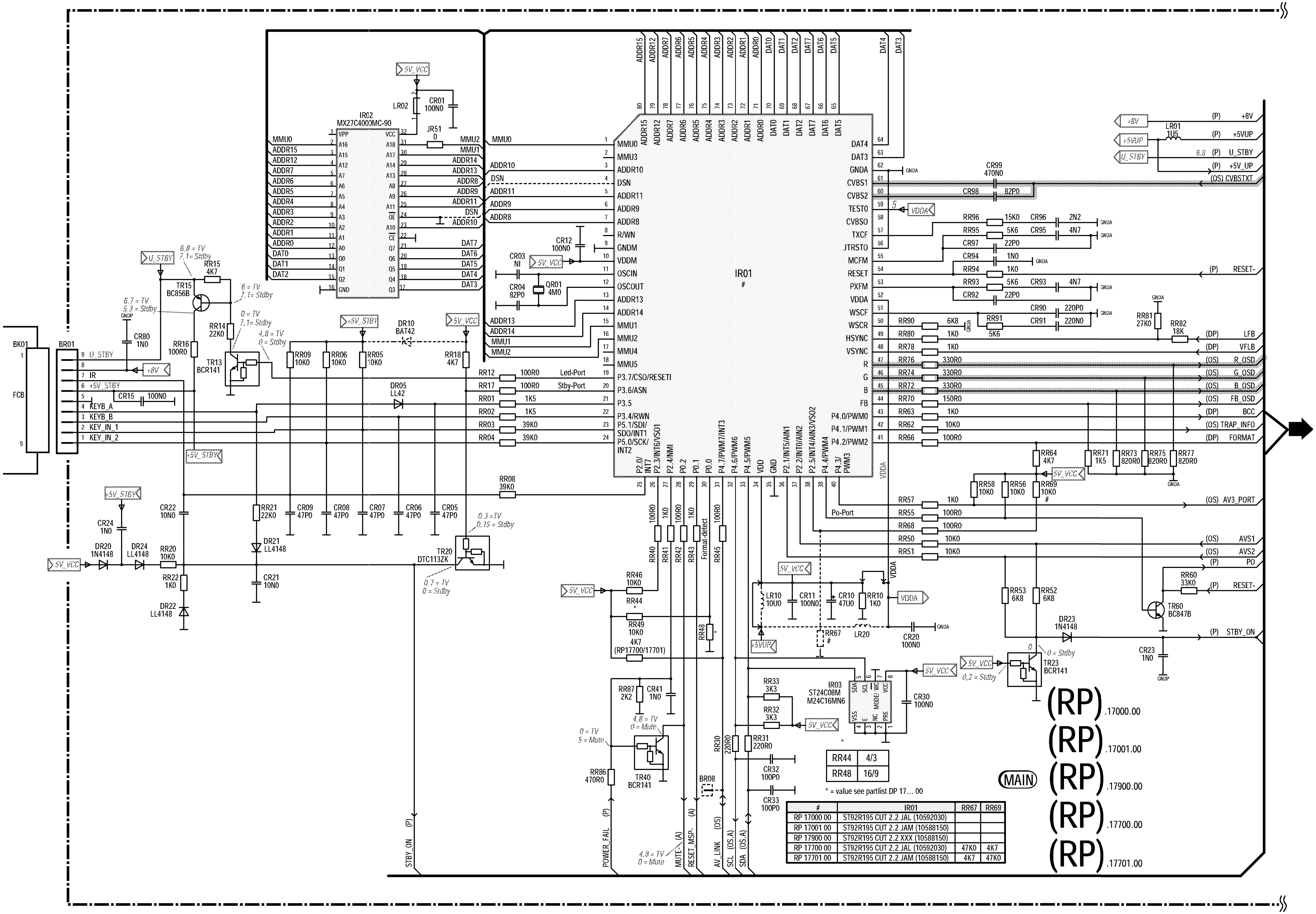
La subtitución de elementos de seguridad (marcados con el simbolo ⚠) por componentes no homologados segun la norma CEI 65, provoca la no conformidad del aparato.
En ese caso, el fabricante cesa de ser responsable.

	TV ASY A66EHJ43X85 01
	TV PSD CT 17961 32
CL21	CFS 14N4F +3.5% -3.5% 1K6V
CL21	CFS 14N4F +3.5% -3.5% 1K6V
CL22	CFS 30N0F +5% -5% 400.0V
CL22	CFS 30N0F +5% -5% 1K0V
CL24	CFS 440N0F +5% -5% 400.0V
CL24	CFS 440N0F +5% -5% 250.0V
CL24A	CFS 440N0F +5% -5% 250.0V
CL41	CCCMIN 100P0F +10% -10% 50.0V
CL48	CPM 10N0F +10% 100.0V
DL48	D-SLP BAV103 200.0V
DL71	D-ZENER BZX55B24 24V 500MI0W
DL71	D-ZENER BZX55C24 24V 500MI0W
JL60	WIREBARE 22
JL81	RCFCCMIN 0 OHM +0% 100MI0W
LB02	LF 21U0H +5% -5%
LL05	TF-DST M30FBC3 10600190 3087
LL05	TF-DST M30FBC3 10608680 3087
LL22	LF 650U0H +5% -5%
LL22	LF 650U0H +5% -5% EAST-WEST
LL26	LL 26U5H +10%
RF05	RMF 1R0 OHM +1% 700MI0W
RL02	RCFCCMIN 10K0 OHM +5% 100MI0W
RL03	RMFCCMIN 10K0 OHM +1% +100PPM/'C 100MI0W
RL04	RMFCCMIN 10K0 OHM +1% +100PPM/'C 100MI0W
RL05	RMFCCMIN 10K0 OHM +1% +100PPM/'C 100MI0W
RL06	RMFCCMIN 8K25 OHM +1% +100PPM/'C 100MI0W
RL06	RMFCCMIN 4K75 OHM +1% +100PPM/'C 100MI0W
RL06	RMFCCMIN 9K09 OHM +1% +100PPM/'C 100MI0W
RL19	RCFCCMIN 22K0 OHM +5% 100MI0W
RL45	RCFCCMIN 180K0 OHM +5% 100MI0W
RL48	RMFCCMIN 76K8 OHM +1% +100PPM/'C 100MI0W
RL65	RCF 24K0 OHM +5% 250MI0W
RV20	RMF 33K2 OHM +1% 250MI0W

	TV ASY A68EGD038X70 (A) 68 00
	TV PSD CT 17971 26
CL21	16N2F +3.5% -3.5% 1K6V
CL21	16N2F +3.5% -3.5% 2K0V
CL21A	16N2F +3.5% -3.5% 1K6V
CL22	30N0F +5% -5% 400.0V
CL22	30N0F +5% -5% 1K0V
CL24	510N0F +5% -5% 250.0V
CL24	510N0F +5% -5% 250.0V
CL41	100P0F +10% -10% 50.0V
CL48	10N0F +10% 100.0V
DL48	D-SLP BAV103 200.0V
DL71	D-ZENER BZX55B24 24V 500MI0W
DL71	D-ZENER BZX55C24 24V 500MI0W
JL60	WIREBARE 22
JL80	0 OHM +0% 100MI0W
LB02	LF 32U0H +4% -4%
LL05	TF-DST TDS29
LL22	LF 650U0H +5% -5%
LL22	LF 650U0H +5% -5% EAST-WEST
LL26	LL 26U5H +10%
LL26	LL 22U0H +10%
RF05	1R0 OHM +1% 700MI0W
RL02	6K8 OHM +5% 100MI0W 1004 A3 00
RL03	4K75 OHM +1% +100PPM/'C 100MI0W
RL04	4K75 OHM +1% +100PPM/'C 100MI0W
RL05	4K75 OHM +1% +100PPM/'C 100MI0W
RL06	4K75 OHM +1% +100PPM/'C 100MI0W
RL19	15K0 OHM +5% 100MI0W
RL45	180K0 OHM +5% 100MI0W
RL48	100K0 OHM +5% 100MI0W
RL49	300K0 OHM +5% 100MI0W
RL65	4K7 OHM +5% 250MI0W
RV20	33K2 OHM +1% 250MI0W

	TV PSD CT 17962 26
	TV ASY A80AEJ15X99 80 00
CL21	16N5F +3.5% -3.5% 2K0V
CL21A	16N5F +3.5% -3.5% 1K6V
CL22	30N0F +5% -5% 1K0V
CL24	560N0F +5% -5% 250.0V
CL41	100P0F +10% -10% 50.0V
CL48	10N0F +10% 100.0V
DL48	D-SLP BAV103 200.0V
DL71	D-ZENER BZX55B24 24V 500MI0W
DL71	D-ZENER BZX55C24 24V 500MI0W
JL60	WIREBARE 22
JL80	0 OHM +0%
LB02	LF 32U0H +4% -4%
LL05	TF-DST TDS29
LL22	LF 650U0H +5% -5%
LL22	LF 650U0H +5% -5% EAST-WEST
LL26	LL 22U0H +10%
RF05	1R0 OHM +1% 700MI0W
RL02	6K2 OHM +5%
RL03	4K75 OHM +1% +100PPM/'C
RL04	4K75 OHM +1% +100PPM/'C
RL05	4K75 OHM +1% +100PPM/'C
RL06	10K0 OHM +1% +100PPM/'C
RL19	13K0 OHM +5%
RL45	150K0 OHM +5%
RL48	76K8 OHM +1% +100PPM/'C
RL49	560K0 OHM +5%
RL65	4K7 OHM +5% 250MI0W
RV20	33K2 OHM +1% 250MI0W

CONTROL MICROPROCESSOR - MICROPROCESSEUR DE COMMANDE - MIKROPROZESSOR - MICROPROCESSORE DEI COMANDI - MICROPROCESADOR DE LOS MANDOS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IRC2
MX27C4000MC-90
IR03
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QR01
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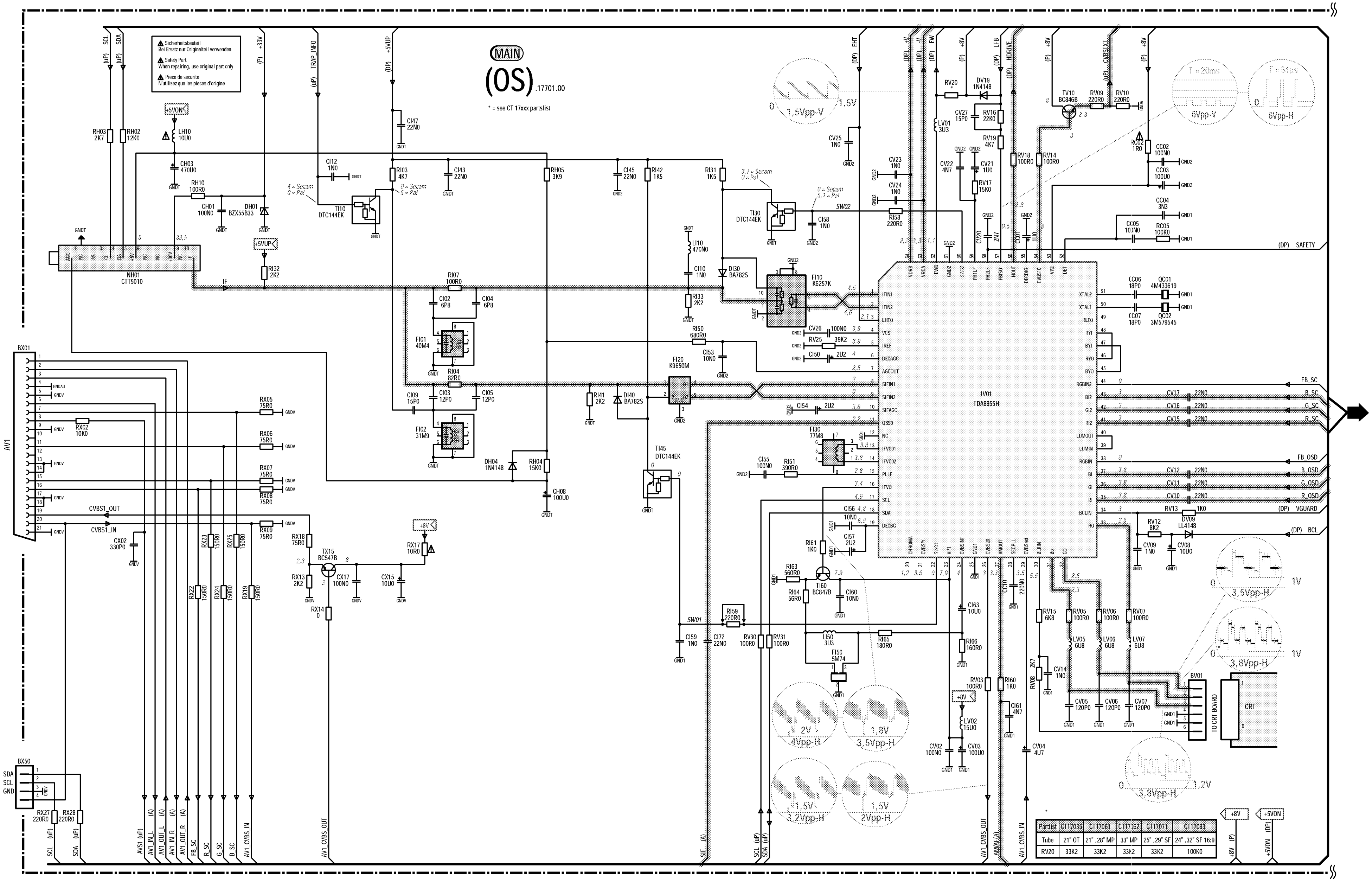
TR13
BCR141
TR20
DTC113ZK
TR40
BCR141
TR23
BCR141
TR60
BC847B
LR01
1U5
LR10
10U0
LR20
DR10
BAT42
DR05
LL42
DR20
1N4148
DR21
LL4148
DR22
LL4148
DR23
1N4148
DR24
LL4148
BR08
9 U_STBY
8
7 IR
6 +5V_STBY
5
4 KEYB_A
3 KEYB_B
2 KEY_IN_1
1 KEY_IN_2
(P) +8V
(P) +5VUP
(P) U_STBY
(P) +5V_UP
(OS) CVBSTXT
(P) RESET-
(DP) LFB
(DP) VFLB
(OS) R_OSD
(OS) G_OSD
(OS) B_OSD
(OS) FB_OSD
(DP) BCC
(OS) TRAP_INFO
(DP) FORMAT
(OS) AV3_PORT
(OS) AVS1
(OS) AVS2
(P) PO
(P) RESET-
(P) STBY_ON
STBY_ON (P)
POWER_FAIL (P)
MUTE- (A)
RESET_MSP- (A)
AV_LINK (OS)
SCL (OS,A)
SDA (OS,A)
Led-Port
Stby-Port
Po-Port
Format-detect
5V_VCC
+5V_STBY
U_STBY
VDDA
GNDA
GNDP
6,8 = TV
7,1 = Stdby
6,7 = TV
5,3 = Stdby
0 = TV
7,1 = Stdby
4,8 = TV
0 = Stdby
0,3 = TV
0,15 = Stdby
0,7 = TV
0 = Stdby
4,8 = TV
0 = Mute
0 = TV
5 = Mute
0 = Stdby
0,2 = Stdby
(RP).17000.00
(RP).17001.00
MAIN
(RP).17900.00
(RP).17700.00
(RP).17701.00

RR44	4/3
RR48	16/9

* = value see partlist DP 17… 00

#	IR01	RR67	RR69
RP 17000 00	ST92R195 CUT 2.2 JAL (10592030)		
RP 17001 00	ST92R195 CUT 2.2 JAM (10588150)		
RP 17900 00	ST92R195 CUT 2.2 XXX (10588150)		
RP 17700 00	ST92R195 CUT 2.2 JAL (10592030)	47K0	4K7
RP 17701 00	ST92R195 CUT 2.2 JAM (10588150)	4K7	47K0

RF/FI/ SCART INTERFACE/VIDEO SIGNAL PROCESSING -HF/FI INTERFACE PERITELEVISION/TRAITEMENT LUMINANCE CHROMINANCE - HF/ZF/ SCART INTERFACE/VIDEO SIGNALVERARBEITUNG - RF/FI /PRESA PERITEL/ELABORAZIONE VIDEO - RF/FI /EUROCONECTOR/TRATAMENTO VIDEO


MAIN
(OS).17701.00
IV01
TDA8855H
NH01
CTT5010
BX01
AV1
BX50
BV01
TO CRT BOARD
CRT
FI01 40M4
FI02 31M9
FI10 K6257K
FI20 K9650M
FI30 77M8
FI50 5M74
TI10 DTC144EK
TI30 DTC144EK
TI45 DTC144EK
TI60 BC847B
TX15 BC547B
TV10 BC846B
DH01 BZX55B33
DH04 1N4148
DI30 BA782S
DI40 BA782S
DV19 1N4148
DV09 LL4148
QC01 4M433619
QC02 3M579545
SCL
SDA
+33V
TRAP_INFO
+5VUP
+5VON
+8V
EHT
EW
LFB
HDRIVE
CVBSTXT
SAFETY
VGUARD
BCL
FB_SC
B_SC
G_SC
R_SC
FB_OSD
B_OSD
G_OSD
R_OSD
IF
SW01
SW02
CVBS1_OUT
CVBS1_IN
AVS1 (uP)
AV1_IN_L (A)
AV1_OUT_L (A)
AV1_IN_R (A)
AV1_OUT_R (A)
FB_SC
R_SC
G_SC
B_SC
AV1_CVBS_IN
AV1_CVBS_OUT
SIF (A)
AMAF(A)
4 = Secam
0 = Pal
3,7 = Secam
0 = Pal
1,5Vpp-V
6Vpp-V
6Vpp-H
T = 20ms
T = 64µs
3,5Vpp-H
3,8Vpp-H
4Vpp-H
3,2Vpp-H
2Vpp-H

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⚠ Safety Part
When repairing, use original part only

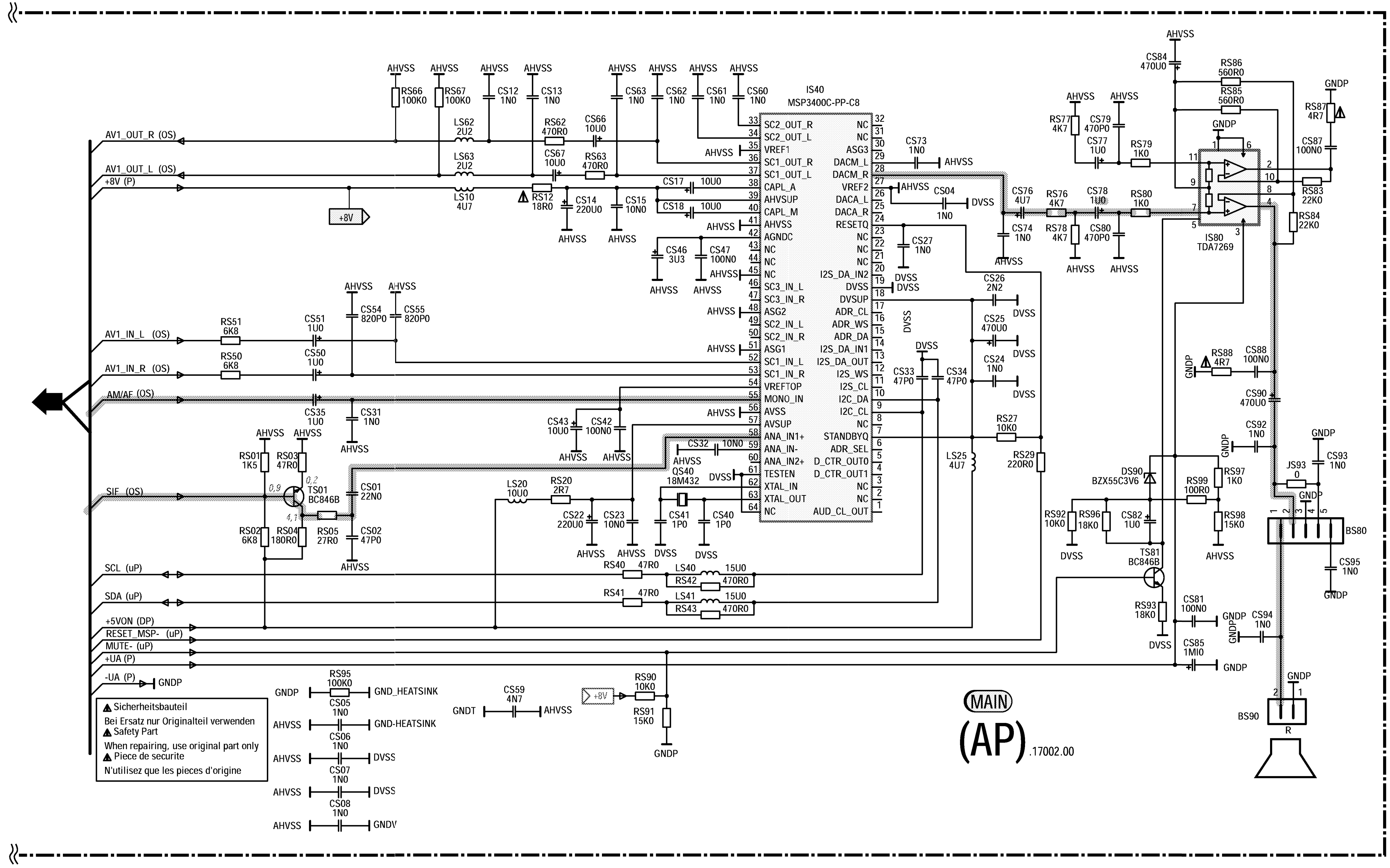
⚠ Piece de securite
N'utilisez que les pieces d'origine

* = see CT 17xxx partslist

Partlist	CT17035	CT17061	CT17062	CT17071	CT17083
Tube	21" OT	21" ,28" MP	33" MP	25" ,29" SF	24" ,32" SF 16:9
RV20	33K2	33K2	33K2	33K2	100K0

AMPLIFIER SCHEMATIC DIAGRAM - SCHEMA DE L'AMPLIFICATEUR - SCHALTBILD AUDIO-SIGNALVERABEITUNG - SCHEMA DELL' AMPLIFICATORE - ESQUEMA DEL AMPLIFICADOR

(MONO)


IS40
MSP3400C-PP-C8
SC2_OUT_R
SC2_OUT_L
VREF1
SC1_OUT_R
SC1_OUT_L
CAPL_A
AHVSUP
CAPL_M
AHVSS
AGNDC
NC
SC3_IN_L
SC3_IN_R
ASG2
SC2_IN_L
SC2_IN_R
ASG1
SC1_IN_L
SC1_IN_R
VREFTOP
MONO_IN
AVSS
AVSUP
ANA_IN1+
ANA_IN-
ANA_IN2+
TESTEN
XTAL_IN
XTAL_OUT
ASG3
DACM_L
DACM_R
VREF2
DACA_L
DACA_R
RESETQ
I2S_DA_IN2
DVSS
DVSUP
ADR_CL
ADR_WS
ADR_DA
I2S_DA_IN1
I2S_DA_OUT
I2S_WS
I2S_CL
I2C_DA
I2C_CL
STANDBYQ
ADR_SEL
D_CTR_OUT0
D_CTR_OUT1
AUD_CL_OUT
IS80
TDA7269
AV1_OUT_R (OS)
AV1_OUT_L (OS)
+8V (P)
+8V
AV1_IN_L (OS)
AV1_IN_R (OS)
AM/AF (OS)
SIF (OS)
SCL (uP)
SDA (uP)
+5VON (DP)
RESET_MSP- (uP)
MUTE- (uP)
+UA (P)
-UA (P)
GNDP
GND_HEATSINK
GND-HEATSINK
GNDT
GNDV
AHVSS
DVSS
RS66 100K0
RS67 100K0
CS12 1N0
CS13 1N0
LS62 2U2
LS63 2U2
LS10 4U7
RS62 470R0
CS66 10U0
CS67 10U0
RS63 470R0
RS12 18R0
CS14 220U0
CS15 10N0
CS63 1N0
CS62 1N0
CS61 1N0
CS60 1N0
CS17 10U0
CS18 10U0
CS46 3U3
CS47 100N0
CS73 1N0
CS04 1N0
CS27 1N0
CS26 2N2
CS25 470U0
CS24 1N0
CS33 47P0
CS34 47P0
RS27 10K0
RS29 220R0
LS25 4U7
RS51 6K8
RS50 6K8
CS51 1U0
CS50 1U0
CS54 820P0
CS55 820P0
CS35 1U0
CS31 1N0
RS01 1K5
RS03 47R0
TS01 BC846B
RS02 6K8
RS04 180R0
RS05 27R0
CS01 22N0
CS02 47P0
CS43 10U0
CS42 100N0
CS32 10N0
QS40 18M432
LS20 10U0
RS20 2R7
CS22 220U0
CS23 10N0
CS41 1P0
CS40 1P0
RS40 47R0
RS41 47R0
LS40 15U0
LS41 15U0
RS42 470R0
RS43 470R0
CS76 4U7
CS74 1N0
RS76 4K7
RS78 4K7
CS78 1U0
CS80 470P0
RS80 1K0
RS77 4K7
CS79 470P0
CS77 1U0
RS79 1K0
CS84 470U0
RS86 560R0
RS85 560R0
RS87 4R7
CS87 100N0
RS83 22K0
RS84 22K0
RS88 4R7
CS88 100N0
CS90 470U0
CS92 1N0
CS93 1N0
JS93 0
BS80
CS95 1N0
DS90 BZX55C3V6
RS99 100R0
RS97 1K0
RS98 15K0
RS92 10K0
RS96 18K0
CS82 1U0
TS81 BC846B
RS93 18K0
CS81 100N0
CS94 1N0
CS85 1MI0
BS90
R
RS95 100K0
CS05 1N0
CS06 1N0
CS07 1N0
CS08 1N0
CS59 4N7
RS90 10K0
RS91 15K0
MAIN
(AP)
.17002.00

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POWER SUPPLY - ALIMENTATION - NETZTEIL - ALIMENTAZIONE - ALIMENTACIÓN

(5) : standby

Note :
During measurements in the power supply unit
- Use the primary power unit ground (PGND).

Attention :
Mesure dans le bloc alimentation
- Utiliser la masse du bloc alimentation (PGND).

Achtung :
Bei Messungen im Primärnetzteil
- Primärnetzteilmasse verwenden (PGND).

Attenzione :
misure nell'alimentatore primario
- usare massa alimentazione primario (PGND).

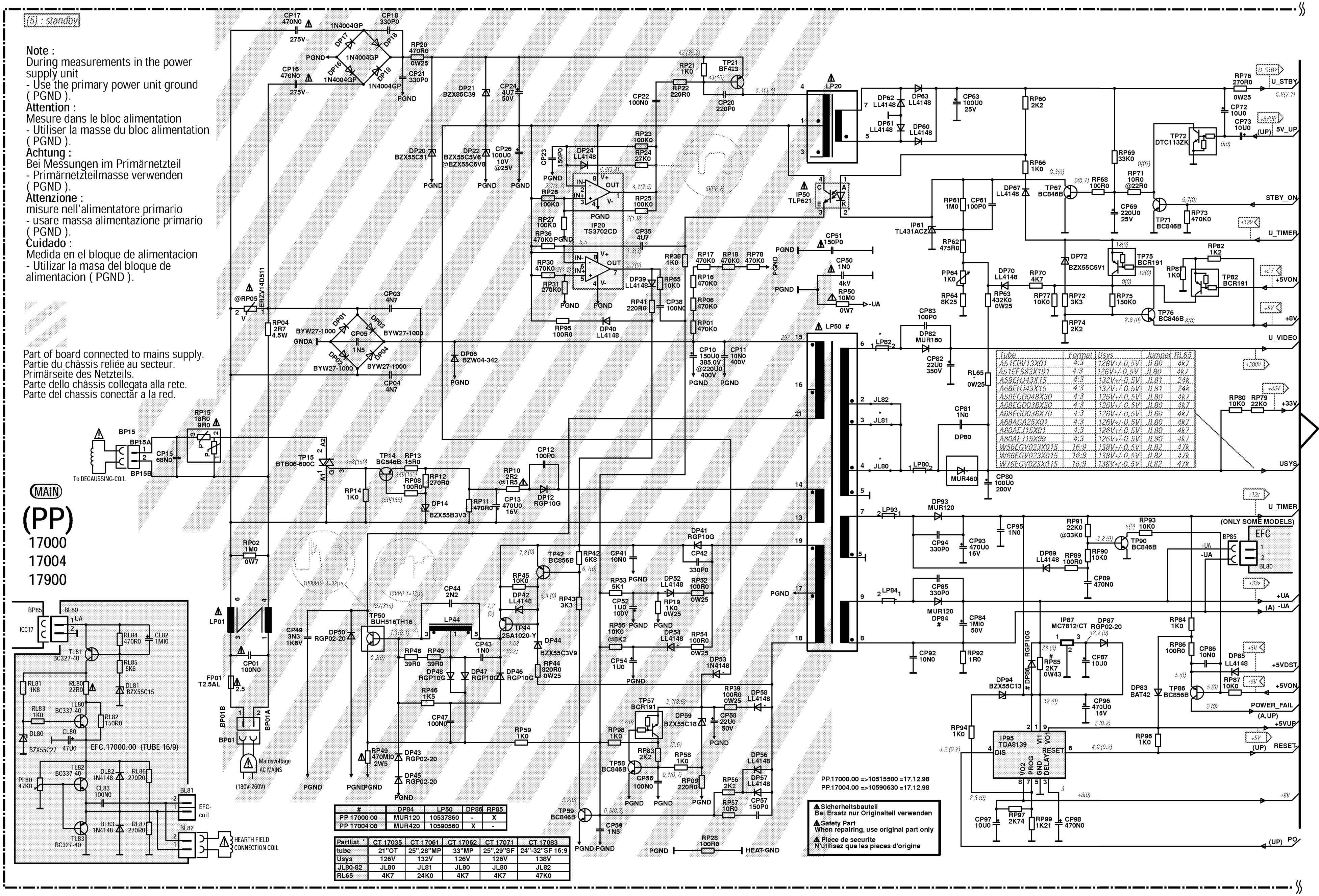
Cuidado :
Medida en el bloque de alimentacion
- Utilizar la masa del bloque de alimentacion (PGND).

Part of board connected to mains supply.
Partie du châssis reliée au secteur.
Primärseite des Netzteils.
Parte dello châssis collegata alla rete.
Parte del chassis conectar a la red.

MAIN

(PP)

17000
17004
17900


CP17 470N0 275V~
1N4004GP
CP18 330P0
DP17
DP18
DP16
DP19
PGND
CP16 470N0 275V~
RP20 470R0 0W25
CP21 330P0
DP21 BZX85C39
CP24 4U7 50V
TP21 BF423
RP21 1K0
RP22 220R0
CP22 100N0
CP20 220P0
LP20
DP62 LL4148
DP63 LL4148
DP61 LL4148
DP60 LL4148
CP63 100U0 25V
RP60 2K2
RP76 270R0 0W25
U_STBY
CP72 10U0
CP73 10U0
5V_UP
TP72 DTC113ZK
DP20 BZX55C51
DP22 BZX55C5V6 @BZX55C6V8
CP26 100U0 10V @25V
CP23 150P0
DP24 LL4148
RP23 100K0
RP24 27K0
RP26 100K0
RP25 100K0
IP20 TS3702CD
RP27 100K0
RP36 470K0
CP35 4U7
RP30 470K0
RP31 270K0
DP39 LL4148
RP65 10K0
RP41 220R0
CP38 100N0
RP95 100R0
DP40 LL4148
RP38 1K0
RP17 470K0
RP18 470K0
RP78 470K0
RP16 470K0
RP06 470K0
RP01 470K0
IP50 TLP621
CP51 150P0
CP50 1N0 4kV
RP50 10M0 0W7
-UA
RP66 1K0
RP69 33K0
TP67 BC846B
RP68 100R0
RP71 10R0 @22R0
DP67 LL4148
RP61 1M0
CP61 100P0
CP69 220U0 25V
TP71 BC846B
RP73 470K0
STBY_ON
IP61 TL431ACZ
RP62 475R0
U_TIMER
PP64 1K0
RP64 8K25
RP63 432K0 0W25
DP70 LL4148
RP70 4K7
DP72 BZX55C5V1
TP75 BCR191
RP82 1K2
RP81 1K0
TP82 BCR191
+5VON
RP77 10K0
RP72 3K3
RP75 150K0
TP76 BC846B
RP74 2K2
+8V
@RP05 ERZV14D511
RP04 2R7 4.5W
CP03 4N7
DP01
DP03
DP02
DP04
BYW27-1000
CP05 1N5
GNDA
CP04 4N7
DP06 BZW04-342
CP10 150U0 385.0V @220U0 400V
CP11 10N0 400V
LP50 #
CP83 100P0
DP82 MUR160
LP82
CP82 22U0 350V
U_VIDEO
RL65 * 0W25
JL82
JL81
JL80
LP80
CP81 1N0
DP80
MUR460
CP80 100U0 200V
RP80 10K0
RP79 22K0
+33V
USYS
RP15 18R0 9R0
BP15
BP15A
BP15B
CP15 68N0
To DEGAUSSING-COIL
TP15 BTB06-600C
TP14 BC546B
RP13 15R0
RP12 270R0
RP08 100R0
RP14 1K0
DP14 BZX55B3V3
RP11 470R0
CP12 100P0
RP10 2R2 @1R5
CP13 470U0 16V
DP12 RGP10G
LP93
DP93 MUR120
CP95 1N0
CP94 330P0
CP93 470U0 16V
RP91 22K0 @33K0
RP93 10K0
TP90 BC846B
DP89 LL4148
RP89 100R0
RP90 10K0
CP89 470N0
(ONLY SOME MODELS)
EFC
BP85
BL80
+UA
-UA
RP02 1M0 0W7
LP01
CP01 100N0
FP01 T2.5AL
BP01
BP01A
BP01B
Mainsvoltage AC MAINS
(180V-260V)
TP50 BUH516TH16
CP49 3N3 1K6V
DP50 RGP02-20
CP44 2N2
LP44
TP44 2SA1020-Y
CP43 1N0
RP48 39R0
RP40 39R0
DP48 RGP10G
DP47 RGP10G
DP46 RGP10G
RP46 1K5
CP47 100N0
RP49 470MI0 2W5
DP43 RGP02-20
DP45 RGP02-20
TP42 BC856B
RP42 6K8
RP45 10K0
DP42 LL4148
RP43 3K3
DP44 BZX55C3V9
RP44 820R0 0W25
RP59 1K0
CP41 10N0
DP41 RGP10G
CP42 330P0
RP53 5K1
DP52 LL4148
RP52 100R0 0W25
CP52 1U0 100V
RP19 1K0 0W25
RP55 10K0 @8K2
DP54 LL4148
RP54 100R0 0W25
CP54 1U0
DP53 1N4148
TP57 BCR191
RP98 1K0
DP59 BZX55C18
CP58 22U0 50V
RP39 100R0 0W25
DP58 LL4148
TP58 BC846B
RP83 2K2
RP58 1K0
CP56 100N0
RP09 220R0
RP56 2K2
DP56 LL4148
DP57 LL4148
RP57 10R0
CP57 150P0
TP59 BC846B
CP59 1N5
RP28 100R0
HEAT-GND
LP84
CP85 330P0
MUR120 DP84 #
CP84 1MI0 50V
(A) -UA
CP92 10N0
RP92 1R0
IP87 MC7812/CT
DP87 RGP02-20
DP86 RGP10G
RP85 2K7 0W43
CP87 10U0
DP94 BZX55C13
CP96 470U0 16V
DP83 BAT42
RP84 1K0
RP86 100R0
CP86 10N0
DP85 LL4148
TP86 BC856B
RP87 10K0
+5VDST
POWER_FAIL
(A,UP)
+5VUP
RP94 1K0
IP95 TDA8139
RP96 1K0
RESET
CP97 10U0
RP97 2K74
RP99 1K21
CP98 470N0
PO
BP85
BL80
ICC17
TL81 BC327-40
RL84 470R0
CL82 1MI0
RL85 5K6
DL81 BZX55C15
RL81 1K8
RL80 22R0
TL80 BC337-40
RL83 1K0
RL82 150R0
DL80
BZX55C27
CL80 47U0
EFC.17000.00 (TUBE 16/9)
TL82 BC337-40
DL82 1N4148
RL86 270R0
PL80 47K0
CL83 100N0
BL81
EFC-coil
TL83 BC327-40
DL83 1N4148
RL87 270R0
BL82
HEARTH FIELD CONNECTION COIL
5VPP-H
150VPP T=13µs
15VPP T=13µs

Tube	Format	Usys	Jumper	RL65
A51EBV13X01	4:3	128V+/-0,5V	JL80	4k7
A51EFS83X191	4:3	126V+/-0,5V	JL80	4k7
A59EHJ43X15	4:3	132V+/-0,5V	JL81	24k
A66EHJ43X15	4:3	132V+/-0,5V	JL81	24k
A59EGD048X30	4:3	126V+/-0,5V	JL80	4k7
A68EGD038X30	4:3	126V+/-0,5V	JL80	4k7
A68EGD038X70	4:3	126V+/-0,5V	JL80	4k7
A68AGA25X01	4:3	126V+/-0,5V	JL80	4k7
A80AEJ15X01	4:3	126V+/-0,5V	JL80	4k7
A80AEJ15X99	4:3	126V+/-0,5V	JL80	4k7
W56EGV023X015	16:9	138V+/-0,5V	JL82	47k
W66EGV023X015	16:9	138V+/-0,5V	JL82	47k
W76EGV023X015	16:9	138V+/-0,5V	JL82	47k

PP.17000.00 =>10515500 =17.12.98
PP.17004.00 =>10590630 =17.12.98

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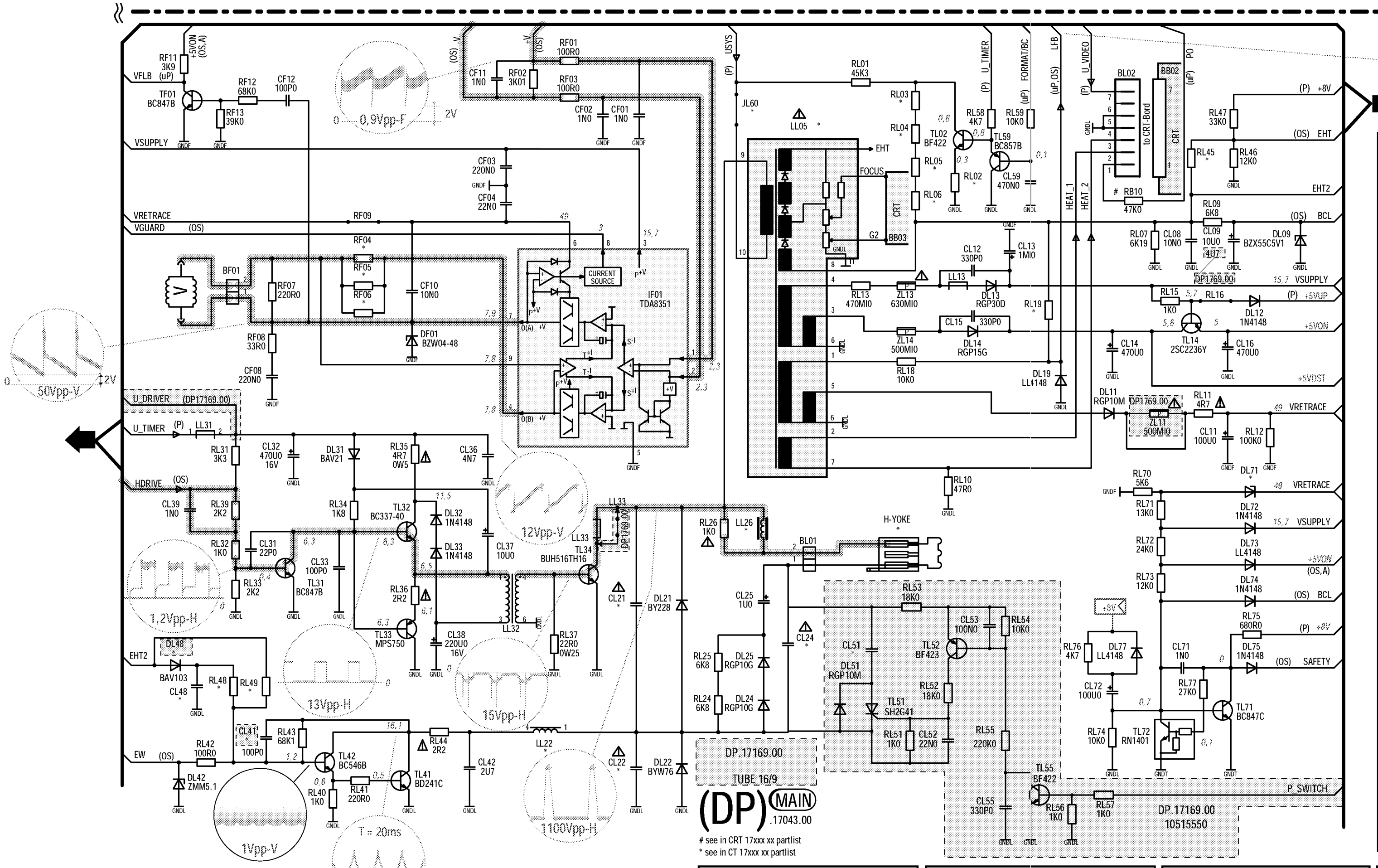
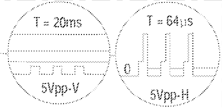
#	DP84	LP50	DP86	RP85
PP 17000 00	MUR120	10537860	-	X
PP 17004 00	MUR420	10590560	X	-

Partlist *	CT 17035	CT 17061	CT 17062	CT 17071	CT 17083
tube	21"OT	25",28"MP	33"MP	25",29"SF	24"-32"SF 16:9
Usys	126V	132V	126V	126V	138V
JL80-82	JL80	JL81	JL80	JL80	JL82
RL65	4K7	24K0	4K7	4K7	47K0

SCANNING - BALAYAGE - ABLENKUNG - BARRIDO - SCANSIONE


VFLB (uP)
RF11 3K9
+5VON (OS,A)
TF01 BC847B
RF12 68K0
CF12 100P0
RF13 39K0
VSUPPLY
0,9Vpp-F
2V
CF11 1N0
RF02 3K01
RF01 100R0
RF03 100R0
CF02 1N0
CF01 1N0
CF03 220N0
CF04 22N0
VRETRACE
VGUARD (OS)
RF09
RF04
RF05
RF06
RF07 220R0
CF10 10N0
BF01
DF01 BZW04-48
RF08 33R0
CF08 220N0
50Vpp-V
IF01 TDA8351
CURRENT SOURCE
U_DRIVER (DP17169.00)
U_TIMER (P)
LL31
RL31 3K3
CL32 470U0 16V
DL31 BAV21
RL35 4R7 0W5
CL36 4N7
HDRIVE (OS)
CL39 1N0
RL39 2K2
RL34 1K8
TL32 BC337-40
DL32 1N4148
DL33 1N4148
CL37 10U0
12Vpp-V
LL33
TL34 BUH516TH16
RL32 1K0
CL31 22P0
CL33 100P0
TL31 BC847B
RL33 2K2
RL36 2R2
TL33 MPS750
CL38 220U0 16V
LL32
RL37 22R0 0W25
1,2Vpp-H
13Vpp-H
15Vpp-H
EHT2
DL48
BAV103
CL48
RL48
RL49
CL41
RL43 68K1
RL42 100R0
EW (OS)
DL42 ZMM5.1
TL42 BC546B
RL40 1K0
RL41 220R0
TL41 BD241C
RL44 2R2
CL42 2U7
LL22
CL22
DL22 BYW76
CL21
DL21 BY228
1Vpp-V
T = 20ms
12Vpp-V
1100Vpp-H
USYS
JL60
LL05
EHT
FOCUS
CRT
G2
BB03
RL01 45K3
RL03
RL04
RL05
RL06
RL02
TL02 BF422
RL58 4K7
RL59 10K0
TL59 BC857B
CL59 470N0
U_TIMER
FORMAT/BC
LFB
U_VIDEO
HEAT_1
HEAT_2
BL02
BB02
to CRT-Bord
RB10 47K0
RL47 33K0
RL45
RL46 12K0
(P) +8V
(OS) EHT
EHT2
(OS) BCL
RL09 6K8
RL07 6K19
CL08 10N0
CL09 10U0
DL09 BZX55C5V1
CL12 330P0
CL13 1MI0
LL13
RL13 470MI0
ZL13 630MI0
DL13 RGP30D
RL19
VSUPPLY
RL15 1K0
RL16
DL12 1N4148
TL14 2SC2236Y
(P) +5VUP
+5VON
CL14 470U0
CL16 470U0
+5VDST
ZL14 500MI0
CL15 330P0
DL14 RGP15G
RL18 10K0
DL19 LL4148
DL11 RGP10M
RL11 4R7
ZL11 500MI0
VRETRACE
CL11 100U0
RL12 100K0
RL10 47R0
RL70 5K6
DL71
RL71 13K0
DL72 1N4148
RL72 24K0
DL73 LL4148
RL73 12K0
DL74 1N4148
(OS,A)
(OS) BCL
RL75 680R0
(P) +8V
DL75 1N4148
(OS) SAFETY
RL76 4K7
DL77 LL4148
CL71 1N0
CL72 100U0
RL77 27K0
TL71 BC847C
RL74 10K0
TL72 RN1401
H-YOKE
RL26 1K0
LL26
BL01
CL25 1U0
CL24
RL25 6K8
DL25 RGP10G
RL24 6K8
DL24 RGP10G
RL53 18K0
CL53 100N0
RL54 10K0
CL51
TL52 BF423
DL51 RGP10M
RL52 18K0
TL51 SH2G41
RL51 1K0
CL52 22N0
RL55 220K0
TL55 BF422
CL55 330P0
RL56 1K0
RL57 1K0
P_SWITCH
DP.17169.00 10515550
DP.17169.00
TUBE 16/9
(DP) MAIN .17043.00

see in CRT 17xxx xx partlist
* see in CT 17xxx xx partlist


T = 20ms
T = 64µs
5Vpp-V
5Vpp-H
0

TV ASY A59EHJ43X15 00 TV ASY A66EHJ43X15 00 Tube 4/3 25", 28" , MP /Vectorgun	
10518330	TV PSD CT 17061 32
CL21	14N0F +3.5% -3.5% 1K5V
CL22	30N0F +5% -5% 400.0V
CL24	470N0F +5% -5% 250.0V
CL24	440N0F +5% -5% 250.0V
CL41	100P0F +10% -10% 50.0V
CL48	CPM 10N0F +10% 63.0V
DL48	D-SLP BAV103 200.0V
DL71	D-ZENER BZX55C30 30V 500MI0W
JL60	WIREBARE 22
JL81	0 OHM +0% 100MI0W
JP80	0 OHM +0% 100MI0W
LB02	LF 18U0H +7% -7%
LL05	TF-DST M30FBC3 10546610 3087 A0
LL22	LF 650U0H +5% -5% R 2873 A0 00
LL26	LL 26U5H +10%
LL26	LL 30U5H 2519 A0
RF04	1R21 OHM +1% 700MI0W
RF05	1R0 OHM +1% 700MI0W
RF05	1R21 OHM +1% 700MI0W
RF06	12R1 OHM +1% 100MI0W
RL02	10K0 OHM +5% 100MI0W
RL02	6K04 OHM +1% 100MI0W
RL02	499R0 OHM +1% 100MI0W
RL03	10K0 OHM +1% 100MI0W
RL03	11K5 OHM +1% 100MI0W
RL04	10K0 OHM +1% 100MI0W
RL04	20K0 OHM +1% 100MI0W
RL04	11K5 OHM +1% 100MI0W
RL05	10K0 OHM +1% 100MI0W
RL05	20K0 OHM +1% 100MI0W
RL05	11K5 OHM +1% 100MI0W
RL06	4K75 OHM +1% 100MI0W
RL06	11K5 OHM +1% 100MI0W
RL11	4R7 OHM +10% 250MI0W
RL11	4R7 OHM +5% 250MI0W
RL19	22K0 OHM +5% 100MI0W
RL19	33K0 OHM +5% 100MI0W
RL43	68K1 OHM +1% 250MI0W
RL43	68K1 OHM +1% 250MI0W
RL43	68K1 OHM +1% 100MI0W
RL45	180K0 OHM +5% 100MI0W
RL45	270K0 OHM +5% 100MI0W
RL46	12K0 OHM +5% 100MI0W
RL47	33K0 OHM +5% 100MI0W
RL48	76K8 OHM +1% 100MI0W
RL48	60K4 OHM +1% 100MI0W
RL64	8K25 OHM +1% 100MI0W
RL65	RCF 24K0 OHM +5% 250MI0W
RV20	RMF 33K2 OHM +1% 250MI0W
RV20	33K2 OHM +1% 100MI0W
ZL13	PROTEC MOD MP63 630MI0 A 65.0V

⚠ Indicates critical safety components, and identical components should be used for replacement. Only then can the operational safety be garanteed.

Le remplacement des éléments de sécurité (repérés avec le symbole ⚠) par des composants non homologués selon la Norme CEI 65 entraine la non-conformité de l'appareil.
Dans ce cas, la responsabilité du fabricant n'est plus engagée.

Wenn Sicherheitsteile (mit dem Symbol ⚠ gekennzeichnet) durch nicht normgerechte Teile ersetzt werden, erlischt die Haftung des Herstellers.

La sostituzione degli elementi di sicurezza (contrassegnati con il segno ⚠) con componenti non omologati secondo la norma CEI 65 comporta la non conformitá dell'apparecchio.
In tal caso é "esclusa la responsabilitá" del costruttore.

La subtitución de elementos de seguridad (marcados con el simbolo ⚠) por componentes no homologados segun la norma CEI 65, provoca la no conformidad del aparato.
En ese caso, el fabricante cesa de ser responsable.

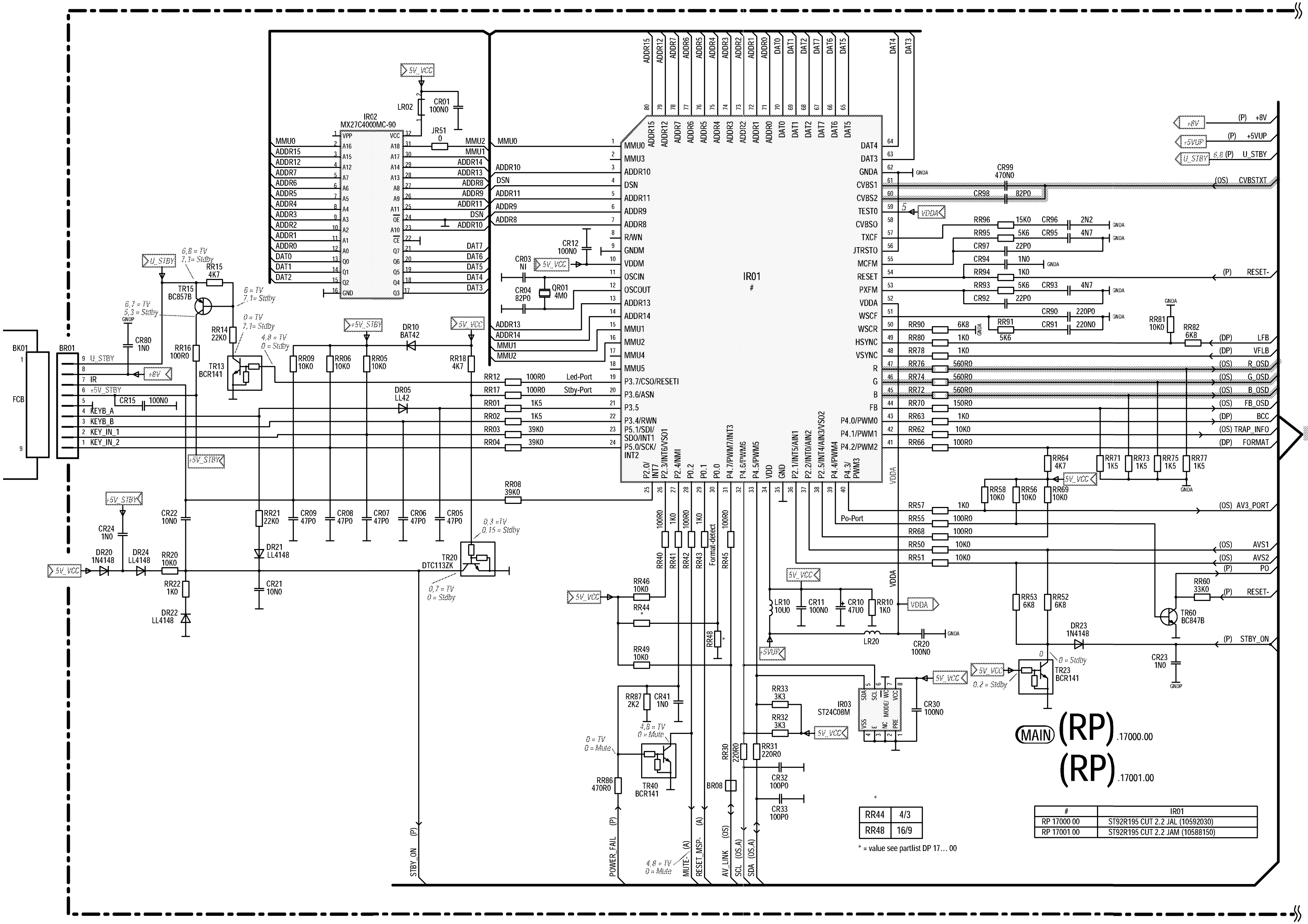
TV ASY A80AEJ15X01 (A) 00 Tube 4/3 33" , MP	
10575830	TV PSD CT 17062 26
CL21	16N2F +3.5% -3.5% 1K6V
CL22	30N0F +5% -5% 400.0V
CL24	560N0F +5% -5% 250.0V
CL41	100P0F +10% -10% 50.0V
CL48	10N0F +10% 63.0V
DL48	D-SLP BAV103 200.0V
DL71	D-ZENER BZX55C30 30V 500MI0W
JL60	WIREBARE 22
JL80	0 OHM +0% 100MI0W
LB02	LF 32U0H +4% -4%
LL05	TF-DST TDS29 TBD 11
LL22	LF 650U0H +5% -5% R 2873 A0 00
LL26	LL 26U5H +10%
RF05	1R21 OHM +1% 700MI0W
RF06	10R0 OHM +1% 100MI0W
RL02	6K04 OHM +1% 100MI0W
RL03	4K75 OHM +1% 100MI0W
RL04	4K75 OHM +1% 100MI0W
RL05	4K75 OHM +1% 100MI0W
RL06	6K81 OHM +1% 100MI0W
RL19	13K0 OHM +5% 100MI0W
RL45	150K0 OHM +5% 100MI0W
RL48	76K8 OHM +1% 100MI0W
RL49	560K0 OHM +5% 100MI0W
RL65	RCF 4K7 OHM +5% 250MI0W
RV20	RMF 23K7 OHM +1% 250MI0W

TV ASY A51EFS83X191 03 Tube 4/3 21" OT	
10555770	TV PSD CT 17035 26
CL21	8N3F +3.5% -3.5% 1K6V
CL22	33N0F +5% -5% 1K0V
CL24	440N0F +5% -5% 250.0V
CL41	1N0F +10% -10% 50.0V
DL71	D-ZENER BZX55C24 24V 500MI0W
JL60	WIREBARE 22
JL80	0 OHM +0% 100MI0W
LB02	LF 18U0H +7% -7%
LL05	TF-DST M30FBC3 10555640 3087 A0
LL22	LF 650U0H +5% -5% R 2873 A0 00
LL26	LL 85U0H 2519 A0
RF05	1R5 OHM +1% 700MI0W
RF06	10R0 OHM +1% 100MI0W
RL02	6K04 OHM +1% 100MI0W
RL03	10K0 OHM +1% 100MI0W
RL04	10K0 OHM +1% 100MI0W
RL05	10K0 OHM +1% 100MI0W
RL06	3K32 OHM +1% 100MI0W
RL45	110K0 OHM +5% 100MI0W
RL49	60K4 OHM +1% 100MI0W
RL65	4K7 OHM +5% 250MI0W
RV20	23K7 OHM +1% 250MI0W

TV ASY A59EGD048X30 19 TV ASY A68EGD038X30 (A) 68 00 Tube 4/3 25" SF, 29" SF	
10515520	TV PSD CT 17071 26
CL21	16N2F +3.5% -3.5% 1K6V
CL22	30N0F +5% -5% 400.0V
CL24	510N0F +5% -5% 250.0V
CL41	100P0F +10% -10% 50.0V
CL48	10N0F +10% 63.0V
DL48	D-SLP BAV103 200.0V
DL71	D-ZENER BZX55C30 30V 500MI0W
JL60	WIREBARE 22
JL80	0 OHM +0% 100MI0W
LB02	LF 32U0H +4% -4%
LL05	TF-DST TDS29 TBD 13
LL22	LF 650U0H +5% -5%
LL26	LL 26U5H +10%
RF05	RMF 1R0 OHM +1% 700MI0W
RL02	6K8 OHM +5% 100MI0W
RL03	4K75 OHM +1% 100MI0W
RL04	4K75 OHM +1% 100MI0W
RL05	4K75 OHM +1% 100MI0W
RL06	4K75 OHM +1% 100MI0W
RL19	15K0 OHM +5% 100MI0W
RL45	180K0 OHM +5% 100MI0W
RL48	100K0 OHM +5% 100MI0W
RL49	300K0 OHM +5% 100MI0W
RL65	4K7 OHM +5% 250MI0W
RV20	33K2 OHM +1% 250MI0W

TV ASY W56EGV023X015 56 01 TV ASY W66EGV023X015 66 00 TV ASY W76EGV023X015 (A) 00 Tube 16/9 24", 28",32", SF / vectorgun	
10515530	TV PSD CT 17083 38
CL21	15N5F +3.5% -3.5% 1K6V
CL22	27N0F +5% -5% 400.0V
CL24	440N0F +5% -5% 250.0V
CL41	100P0F +10% -10% 50.0V
CL48	100N0F +5% 63.0V
CL51	290N0F +5% -5% 250.0V
DL48	D-SLP BAV103 200.0V
DL71	D-ZENER BZX55C24 24V 500MI0W
JL60	WIREBARE 22
JL82	0 OHM +0% 100MI0W
LB02	LF 32U0H +4% -4%
LL05	TF-DST TDS29 15314460 10
LL22	LF 650U0H +5% -5%
LL26	LL 30U5H 2519 A0
RF05	1R21 OHM +1% 700MI0W
RL02	4K99 OHM +1% 100MI0W
RL03	6K49 OHM +1% 100MI0W
RL04	6K49 OHM +1% 100MI0W
RL05	6K49 OHM +1% 100MI0W
RL06	2K37 OHM +1% 100MI0W
RL19	13K0 OHM +5% 100MI0W
RL45	390K0 OHM +5% 100MI0W
RL48	220K0 OHM +5% 100MI0W
RL49	180K0 OHM +5% 100MI0W
RL65	47K0 OHM +5% 250MI0W
RV20	100K0 OHM +1% 250MI0W

CONTROL MICROPROCESSOR - MICROPROCESSEUR DE COMMANDE - MIKROPROZESSOR - MICROPROCESSORE DEI COMANDI - MICROPROCESADOR DE LOS MANDOS



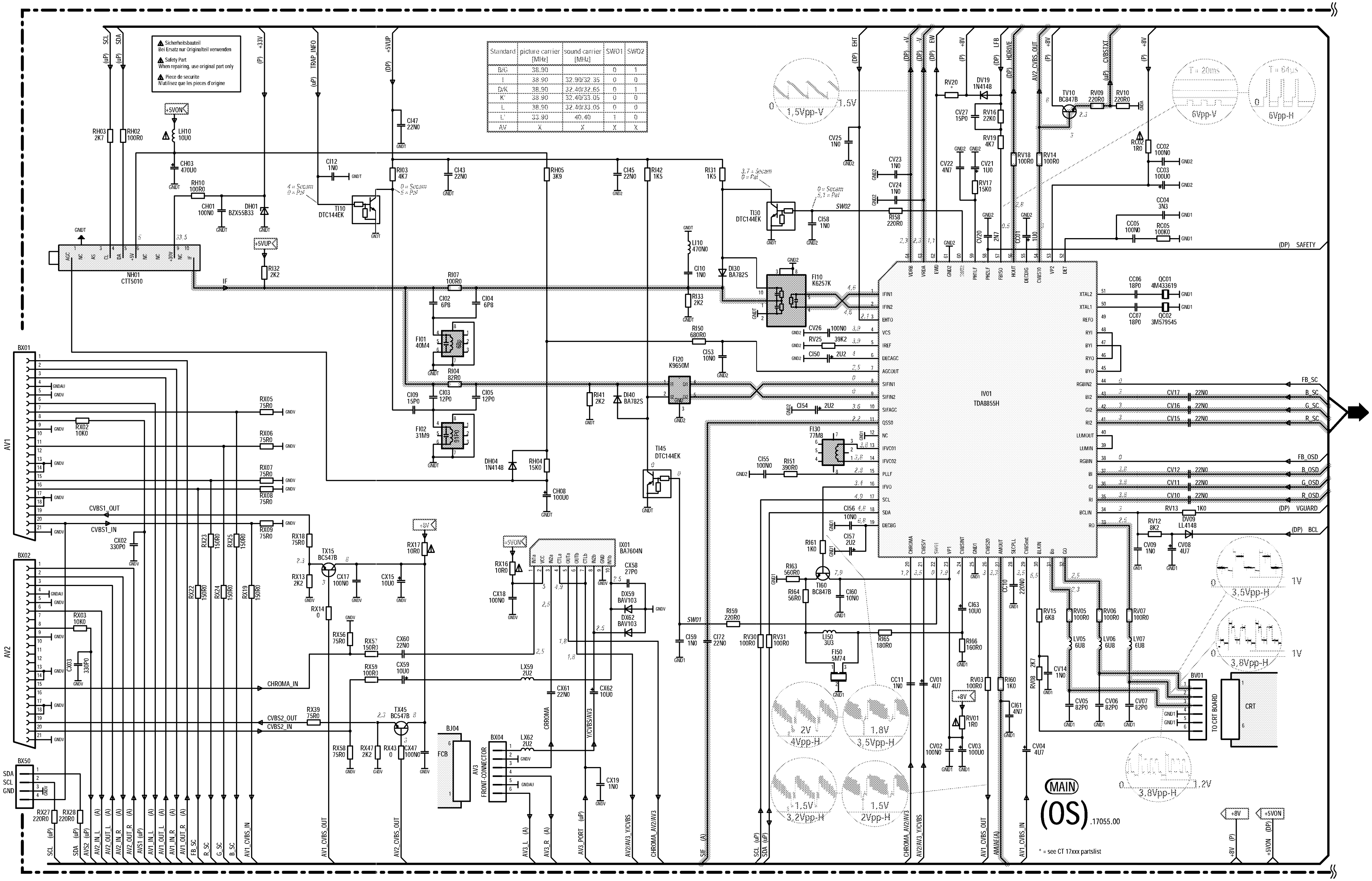
IR01
IR02
MX27C4000MC-90
IR03
ST24C08M
BK01
BR01
FCB
U_STBY
IR
+5V_STBY
KEYB_A
KEYB_B
KEY_IN_1
KEY_IN_2
TR15 BC857B
TR13 BCR141
TR20 DTC113ZK
TR23 BCR141
TR40 BCR141
TR60 BC847B
QR01 4M0
DR10 BAT42
DR05 LL42
DR20 1N4148
DR24 LL4148
DR21 LL4148
DR22 LL4148
DR23 1N4148
Led-Port
Stby-Port
Po-Port
Format-detect
(P) +8V
(P) +5VUP
(P) U_STBY
(OS) CVBSTXT
(P) RESET-
(DP) LFB
(DP) VFLB
(OS) R_OSD
(OS) G_OSD
(OS) B_OSD
(OS) FB_OSD
(DP) BCC
(OS) TRAP_INFO
(DP) FORMAT
(OS) AV3_PORT
(OS) AVS1
(OS) AVS2
(P) PO
(P) RESET-
(P) STBY_ON
STBY_ON (P)
POWER_FAIL (P)
MUTE- (A)
RESET_MSP- (A)
AV_LINK (OS)
SCL (OS,A)
SDA (OS,A)
5V_VCC
VDDA
+5VUP
MAIN
(RP).17000.00
(RP).17001.00

RR44	4/3
RR48	16/9

* = value see partlist DP 17… 00

#	IR01
RP 17000 00	ST92R195 CUT 2.2 JAL (10592030)
RP 17001 00	ST92R195 CUT 2.2 JAM (10588150)

RF/FI/ SCART INTERFACE/VIDEO SIGNAL PROCESSING -HF/FI INTERFACE PERITELEVISION/TRAITEMENT LUMINANCE CHROMINANCE - HF/ZF/ SCART INTERFACE/VIDEO SIGNALVERARBEITUNG - RF/FI /PRESA PERITEL/ELABORAZIONE VIDEO - RF/FI /EUROCONECTOR / TRATAMENTO VIDEO



SCL (uP)
SDA (uP)
+33V (P)
TRAP_INFO (uP)
+5VUP (DP)
EHT (DP)
-V (DP)
EW (DP)
+8V (P)
LFB
HDRIVE (DP)
AV2_CVBS_OUT
+8V (P)
CVBSTXT (uP)
SAFETY (DP)
NH01 CTT5010
IF
IV01 TDA8855H
FI10 K6257K
FI20 K9650M
FI30 77M8
FI01 40M4
FI02 31M9
TI10 DTC144EK
TI30 DTC144EK
TI45 DTC144EK
TV10 BC847B
TX15 BC547B
TX45 BC547B
TI60 BC847B
IX01 BA7604N
BX01
AV1
BX02
AV2
BX50
BJ04 FCB
BX04 AV3 FRONT-CONNECTOR
BV01 TO CRT BOARD
CRT
QC01 4M433619
QC02 3M579545
4 = Secam
0 = Pal
3,7 = Secam
0 = Pal
0 = Secam
5,1 = Pal
SW01
SW02
CVBS1_OUT
CVBS1_IN
CHROMA_IN
CVBS2_OUT
CVBS2_IN
CHROMA
Y/CVBS/AV3
FB_SC
B_SC
G_SC
R_SC
FB_OSD
B_OSD
G_OSD
R_OSD
VGUARD (DP)
BCL (DP)
1,5Vpp-V
1,5V
T = 20ms
6Vpp-V
T = 64µs
6Vpp-H
3,5Vpp-H
1V
3,8Vpp-H
1V
2V
4Vpp-H
1,8V
3,5Vpp-H
1,5V
3,2Vpp-H
1,5V
2Vpp-H
3,8Vpp-H
1,2V
SCL (uP)
SDA (uP)
AVS2 (uP)
AV2_IN_L (A)
AV2_OUT_L (A)
AV2_IN_R (A)
AV2_OUT_R (A)
AVS1 (uP)
AV1_IN_L (A)
AV1_OUT_L (A)
AV1_IN_R (A)
AV1_OUT_R (A)
FB_SC
R_SC
G_SC
B_SC
AV1_CVBS_IN
AV1_CVBS_OUT
AV2_CVBS_OUT
AV3_L (A)
AV3_R (A)
AV3_PORT (uP)
AV2/AV3_Y/CVBS
CHROMA_AV2/AV3
SIF (A)
SCL (uP)
SDA (uP)
CHROMA_AV2/AV3
AV2/AV3_Y/CVBS
AV1_CVBS_OUT
AM/AF (A)
AV1_CVBS_IN
+8V (P)
+5VON (DP)
MAIN
(OS) .17055.00
* = see CT 17xxx partslist

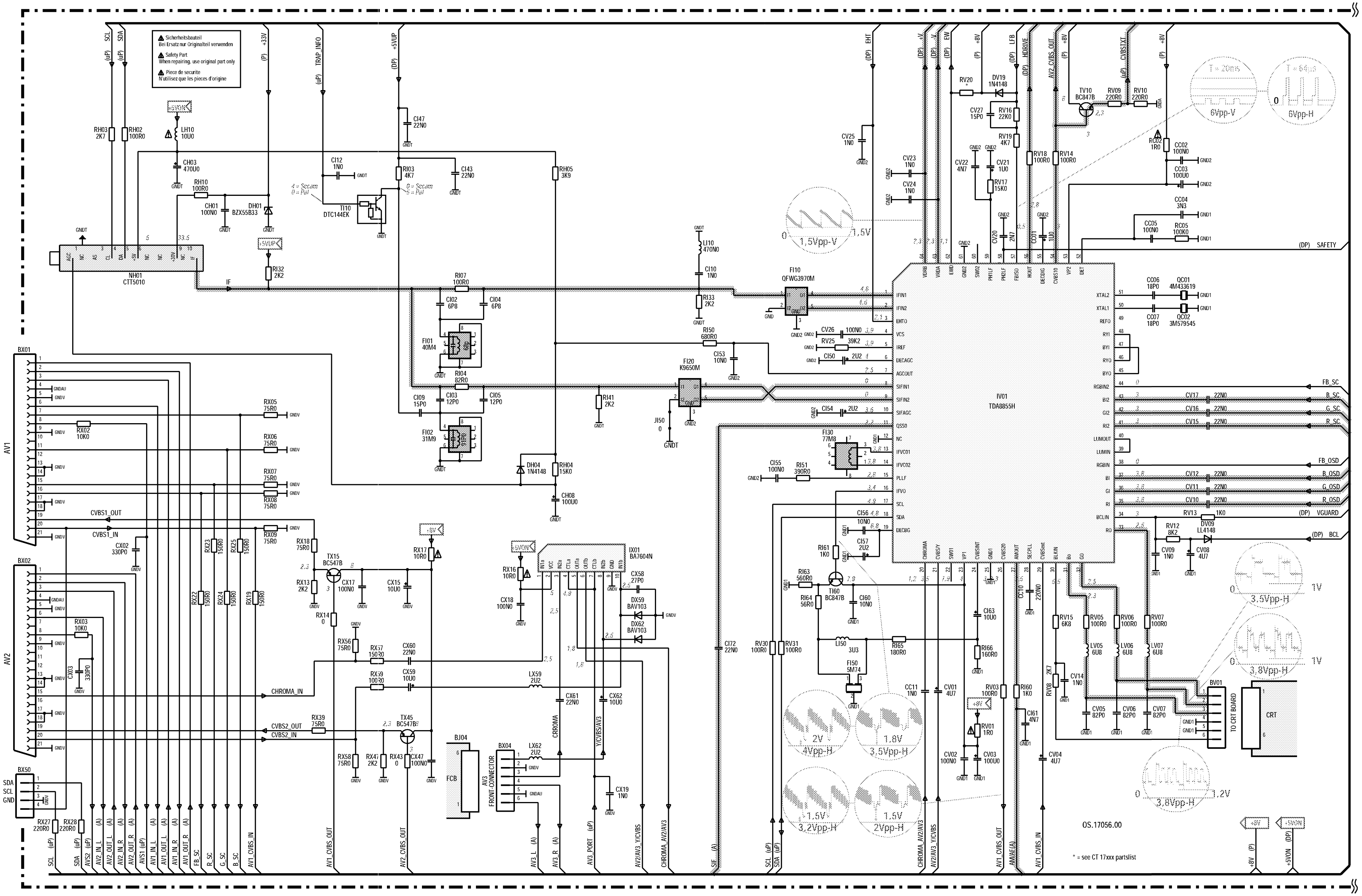
Standard	picture carrier [MHz]	sound carrier [MHz]	SWO1	SWO2
B/G	38.90		0	1
I	38.90	32.90/32.35	0	0
D/K	38.90	32.40/32.65	0	1
K'	38.90	32.40/33.05	0	0
L	38.90	32.40/33.05	0	0
L'	33.90	40.40	1	0
AV	X	X	X	X

⚠ Sicherheitsbauteil
Bei Ersatz nur Originalteil verwenden

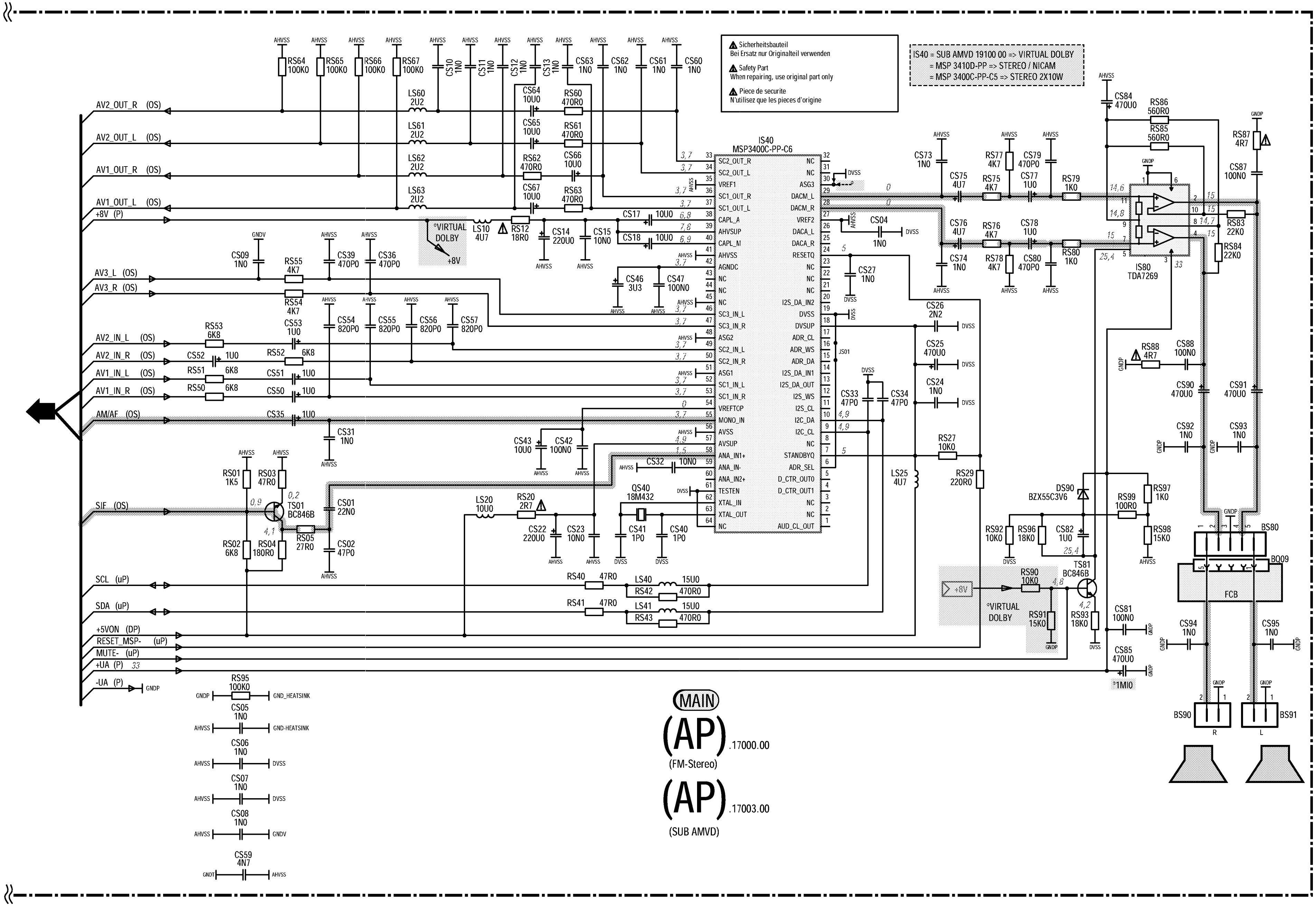
⚠ Safety Part
When repairing, use original part only

⚠ Piece de securite
N'utilisez que les pieces d'origine

RF/FI/ SCART INTERFACE/VIDEO SIGNAL PROCESSING -HF/FI INTERFACE PERITELEVISION/TRAITEMENT LUMINANCE CHROMINANCE - HF/ZF/ SCART INTERFACE/VIDEO SIGNALVERARBEITUNG - RF/FI /PRESA PERITEL/ELABORAZIONE VIDEO - RF/FI /EUROCONECTOR/TRATAMENTO VIDEO


Sicherheitsbauteil
Bei Ersatz nur Originalteil verwenden
Safety Part
When repairing, use original part only
Piece de securite
N'utilisez que les pieces d'origine
NH01 CTT5010
IF
FI10 QFWG3970M
FI20 K9650M
FI30 77M8
FI01 40M4
FI02 31M9
IV01 TDA8855H
IX01 BA7604N
TI10 DTC144EK
TX15 BC547B
TX45 BC547B
TI60 BC847B
TV10 BC847B
QC01 4M433619
QC02 3M579545
BX01
AV1
BX02
AV2
BX50
BX04
AV3 FRONT-CONNECTOR
BJ04
FCB
BV01
TO CRT BOARD
CRT
CVBS1_OUT
CVBS1_IN
CHROMA_IN
CVBS2_OUT
CVBS2_IN
SCL (uP)
SDA (uP)
AVS2 (uP)
AV2_IN_L (A)
AV2_OUT_L (A)
AV2_IN_R (A)
AV2_OUT_R (A)
AVS1 (uP)
AV1_IN_L (A)
AV1_OUT_L (A)
AV1_IN_R (A)
AV1_OUT_R (A)
FB_SC
R_SC
G_SC
B_SC
AV1_CVBS_IN
AV1_CVBS_OUT
AV2_CVBS_OUT
AV3_L (A)
AV3_R (A)
AV3_PORT (uP)
AV2/AV3_Y/CVBS
CHROMA_AV2/AV3
SIF (A)
AV1_CVBS_OUT
AM/AE(A)
AV1_CVBS_IN
+8V (P)
+5VON (DP)
(P) +33V
(uP) TRAP_INFO
(DP) +5VUP
(DP) EHT
(DP) -V
(DP) +V
(DP) EW
(P) +8V
(DP) LFB
(DP) HDRIVE
AV2_CVBS_OUT
(P) +8V
(uP) CVBSTXT
(P) +8V
(DP) SAFETY
FB_SC
B_SC
G_SC
R_SC
FB_OSD
B_OSD
G_OSD
R_OSD
(DP) VGUARD
(DP) BCL
4 = Secam
0 = Pal
0 = Secam
5 = Pal
T = 20ms
6Vpp-V
T = 64µs
6Vpp-H
1,5Vpp-V
1,5V
3,5Vpp-H
1V
3,8Vpp-H
1V
3,8Vpp-H
1,2V
2V
4Vpp-H
1,8V
3,5Vpp-H
1,5V
3,2Vpp-H
1,5V
2Vpp-H
OS.17056.00
* = see CT 17xxx partslist

AMPLIFIER SCHEMATIC DIAGRAM - SCHEMA DE L'AMPLIFICATEUR - SCHALTBILD AUDIO-SIGNALVERABEITUNG - SCHEMA DELL' AMPLIFICATORE
ESQUEMA DEL AMPLIFICADOR
(STEREO)



⚠ Sicherheitsbauteil
Bei Ersatz nur Originalteil verwenden

⚠ Safety Part
When repairing, use original part only

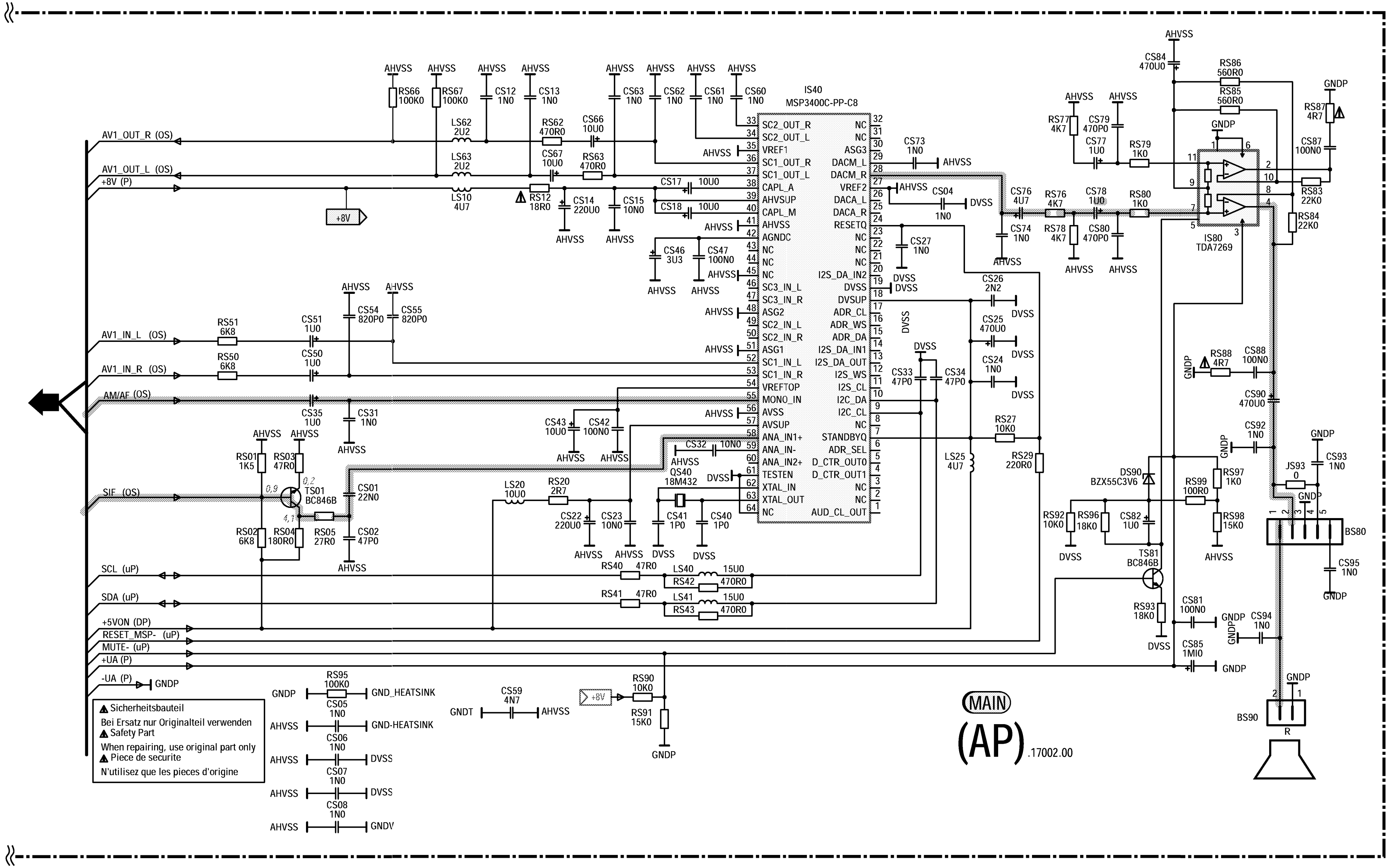
⚠ Piece de securite
N'utilisez que les pieces d'origine

IS40 = SUB AMVD 19100 00 => VIRTUAL DOLBY
= MSP 3410D-PP => STEREO / NICAM
= MSP 3400C-PP-C5 => STEREO 2X10W

AV2_OUT_R (OS)
AV2_OUT_L (OS)
AV1_OUT_R (OS)
AV1_OUT_L (OS)
+8V (P)
AV3_L (OS)
AV3_R (OS)
AV2_IN_L (OS)
AV2_IN_R (OS)
AV1_IN_L (OS)
AV1_IN_R (OS)
AM/AF (OS)
SIF (OS)
SCL (uP)
SDA (uP)
+5VON (DP)
RESET_MSP- (uP)
MUTE- (uP)
+UA (P) 33
-UA (P)
GNDP
RS64 100K0
RS65 100K0
RS66 100K0
RS67 100K0
CS10 1N0
CS11 1N0
CS12 1N0
CS13 1N0
CS63 1N0
CS62 1N0
CS61 1N0
CS60 1N0
LS60 2U2
LS61 2U2
LS62 2U2
LS63 2U2
CS64 10U0
RS60 470R0
CS65 10U0
RS61 470R0
RS62 470R0
CS66 10U0
CS67 10U0
RS63 470R0
°VIRTUAL DOLBY
+8V
LS10 4U7
RS12 18R0
CS14 220U0
CS15 10N0
CS17 10U0
CS18 10U0
CS46 3U3
CS47 100N0
CS09 1N0
RS55 4K7
CS39 470P0
CS36 470P0
RS54 4K7
RS53 6K8
CS53 1U0
CS54 820P0
CS55 820P0
CS56 820P0
CS57 820P0
CS52 1U0
RS52 6K8
RS51 6K8
CS51 1U0
RS50 6K8
CS50 1U0
CS35 1U0
CS31 1N0
CS43 10U0
CS42 100N0
RS01 1K5
RS03 47R0
TS01 BC846B
CS01 22N0
RS02 6K8
RS04 180R0
RS05 27R0
CS02 47P0
LS20 10U0
RS20 2R7
CS22 220U0
CS23 10N0
CS32 10N0
QS40 18M432
CS41 1P0
CS40 1P0
RS40 47R0
RS41 47R0
LS40 15U0
RS42 470R0
LS41 15U0
RS43 470R0
IS40 MSP3400C-PP-C6
SC2_OUT_R
SC2_OUT_L
VREF1
SC1_OUT_R
SC1_OUT_L
CAPL_A
AHVSUP
CAPL_M
AHVSS
AGNDC
NC
SC3_IN_L
SC3_IN_R
ASG2
SC2_IN_L
SC2_IN_R
ASG1
SC1_IN_L
SC1_IN_R
VREFTOP
MONO_IN
AVSS
AVSUP
ANA_IN1+
ANA_IN-
ANA_IN2+
TESTEN
XTAL_IN
XTAL_OUT
ASG3
DACM_L
DACM_R
VREF2
DACA_L
DACA_R
RESETQ
I2S_DA_IN2
DVSS
DVSUP
ADR_CL
ADR_WS
ADR_DA
I2S_DA_IN1
I2S_DA_OUT
I2S_WS
I2S_CL
I2C_DA
I2C_CL
STANDBYQ
ADR_SEL
D_CTR_OUT0
D_CTR_OUT1
AUD_CL_OUT
CS04 1N0
CS27 1N0
CS26 2N2
CS25 470U0
CS24 1N0
CS33 47P0
CS34 47P0
JS01
RS27 10K0
RS29 220R0
LS25 4U7
CS73 1N0
CS75 4U7
RS77 4K7
CS79 470P0
RS75 4K7
CS77 1U0
RS79 1K0
CS76 4U7
RS76 4K7
CS78 1U0
CS74 1N0
RS78 4K7
CS80 470P0
RS80 1K0
CS84 470U0
RS86 560R0
RS85 560R0
RS87 4R7
CS87 100N0
RS83 22K0
RS84 22K0
IS80 TDA7269
RS88 4R7
CS88 100N0
CS90 470U0
CS91 470U0
CS92 1N0
CS93 1N0
DS90 BZX55C3V6
RS99 100R0
RS97 1K0
RS92 10K0
RS96 18K0
CS82 1U0
RS98 15K0
BS80
BQ09
FCB
+8V
RS90 10K0
TS81 BC846B
°VIRTUAL DOLBY
RS91 15K0
RS93 18K0
CS81 100N0
CS85 470U0
°1MI0
CS94 1N0
CS95 1N0
BS90
BS91
R
L
RS95 100K0
GND_HEATSINK
CS05 1N0
CS06 1N0
CS07 1N0
CS08 1N0
CS59 4N7
AHVSS
DVSS
GNDV
GNDT
MAIN
(AP).17000.00
(FM-Stereo)
(AP).17003.00
(SUB AMVD)

AMPLIFIER SCHEMATIC DIAGRAM - SCHEMA DE L'AMPLIFICATEUR - SCHALTBILD AUDIO-SIGNALVERABEITUNG - SCHEMA DELL' AMPLIFICATORE - ESQUEMA DEL AMPLIFICADOR

(MONO)



AV1_OUT_R (OS)
AV1_OUT_L (OS)
+8V (P)
+8V
AV1_IN_L (OS)
AV1_IN_R (OS)
AM/AF (OS)
SIF (OS)
SCL (uP)
SDA (uP)
+5VON (DP)
RESET_MSP- (uP)
MUTE- (uP)
+UA (P)
-UA (P)
GNDP
AHVSS
DVSS
RS66 100K0
RS67 100K0
CS12 1N0
CS13 1N0
LS62 2U2
LS63 2U2
LS10 4U7
RS62 470R0
CS66 10U0
CS67 10U0
RS63 470R0
RS12 18R0
CS14 220U0
CS15 10N0
CS63 1N0
CS62 1N0
CS61 1N0
CS60 1N0
CS17 10U0
CS18 10U0
CS46 3U3
CS47 100N0
IS40
MSP3400C-PP-C8
33 SC2_OUT_R
34 SC2_OUT_L
35 VREF1
36 SC1_OUT_R
37 SC1_OUT_L
38 CAPL_A
39 AHVSUP
40 CAPL_M
41 AHVSS
42 AGNDC
43 NC
44 NC
45 NC
46 SC3_IN_L
47 SC3_IN_R
48 ASG2
49 SC2_IN_L
50 SC2_IN_R
51 ASG1
52 SC1_IN_L
53 SC1_IN_R
54 VREFTOP
55 MONO_IN
56 AVSS
57 AVSUP
58 ANA_IN1+
59 ANA_IN-
60 ANA_IN2+
61 TESTEN
62 XTAL_IN
63 XTAL_OUT
64 NC
32 NC
31 NC
30 ASG3
29 DACM_L
28 DACM_R
27 VREF2
26 DACA_L
25 DACA_R
24 RESETQ
23 NC
22 NC
21 NC
20 I2S_DA_IN2
19 DVSS
18 DVSUP
17 ADR_CL
16 ADR_WS
15 ADR_DA
14 I2S_DA_IN1
13 I2S_DA_OUT
12 I2S_WS
11 I2S_CL
10 I2C_DA
9 I2C_CL
8 NC
7 STANDBYQ
6 ADR_SEL
5 D_CTR_OUT0
4 D_CTR_OUT1
3 NC
2 NC
1 AUD_CL_OUT
CS73 1N0
CS04 1N0
CS27 1N0
CS26 2N2
CS25 470U0
CS24 1N0
CS33 47P0
CS34 47P0
RS27 10K0
RS29 220R0
LS25 4U7
CS32 10N0
QS40 18M432
CS41 1P0
CS40 1P0
CS22 220U0
CS23 10N0
LS20 10U0
RS20 2R7
CS43 10U0
CS42 100N0
RS40 47R0
RS41 47R0
LS40 15U0
LS41 15U0
RS42 470R0
RS43 470R0
RS51 6K8
RS50 6K8
CS51 1U0
CS50 1U0
CS54 820P0
CS55 820P0
CS35 1U0
CS31 1N0
RS01 1K5
RS03 47R0
TS01 BC846B
0,9
0,2
4,1
RS02 6K8
RS04 180R0
RS05 27R0
CS01 22N0
CS02 47P0
CS84 470U0
RS86 560R0
RS85 560R0
RS87 4R7
CS87 100N0
RS77 4K7
CS79 470P0
CS77 1U0
RS79 1K0
CS76 4U7
RS76 4K7
CS78 1U0
RS80 1K0
CS74 1N0
RS78 4K7
CS80 470P0
RS83 22K0
RS84 22K0
IS80 TDA7269
1 2 3 4 5 6 7 8 9 10 11
RS88 4R7
CS88 100N0
CS90 470U0
CS92 1N0
CS93 1N0
JS93 0
DS90 BZX55C3V6
RS97 1K0
RS99 100R0
RS98 15K0
RS92 10K0
RS96 18K0
CS82 1U0
TS81 BC846B
RS93 18K0
CS81 100N0
CS85 1MI0
CS94 1N0
CS95 1N0
BS80
BS90
R
GNDP
GND_HEATSINK
GND-HEATSINK
GNDT
GNDV
RS95 100K0
CS05 1N0
CS06 1N0
CS07 1N0
CS08 1N0
CS59 4N7
RS90 10K0
RS91 15K0
MAIN
(AP).17002.00

⚠ Sicherheitsbauteil

Bei Ersatz nur Originalteil verwenden

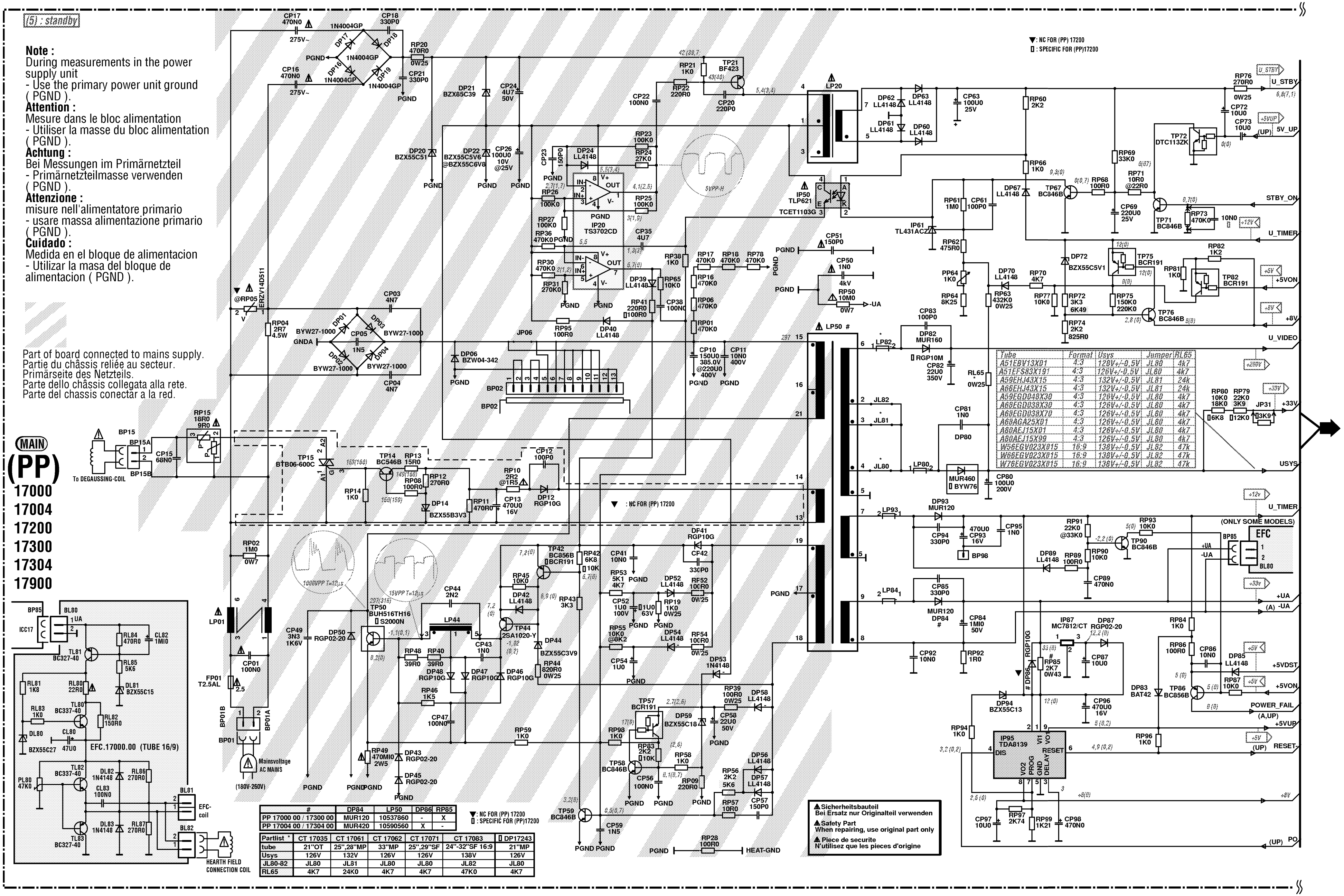
⚠ Safety Part

When repairing, use original part only

⚠ Piece de securite

N'utilisez que les pieces d'origine

POWER SUPPLY - ALIMENTATION - NETZTEIL - ALIMENTAZIONE - ALIMENTACIÓN


(5) : standby
MAIN
(PP)
17000
17004
17200
17300
17304
17900
CP17 470N0
CP18 330P0
1N4004GP
DP17
DP18
DP16
DP19
275V~
PGND
RP20 470R0 0W25
CP16 470N0
CP21 330P0
DP21 BZX85C39
CP24 4U7 50V
DP20 BZX55C51
DP22 BZX55C5V6 @BZX55C6V8
CP26 100U0 10V @25V
TP21 BF423
RP21 1K0
RP22 220R0
CP22 100N0
CP20 220P0
LP20
CP23 150P0
DP24 LL4148
RP23 100K0
RP24 27K0
RP25 100K0
RP26 100K0
RP27 100K0
RP36 470K0
IP20 TS3702CD
CP35 4U7
RP30 470K0
RP31 270K0
RP38 1K0
DP39 LL4148
RP65 10K0
RP41 220R0 100R0
CP38 100N0
RP95 100R0
DP40 LL4148
5VPP-H
IP50 TLP621
TCET1103G
RP17 470K0
RP18 470K0
RP78 470K0
RP16 470K0
RP06 470K0
RP01 470K0
CP51 150P0
CP50 1N0 4kV
RP50 10M0 0W7
-UA
@RP05 ERZV14D511
RP04 2R7 4.5W
DP01 DP02 DP03 DP04 BYW27-1000
CP05 1N5
CP03 4N7
CP04 4N7
GNDA
JP06
DP06 BZW04-342
BP02
LP50 #
CP10 150U0 385.0V @220U0 400V
CP11 10N0 400V
Part of board connected to mains supply.
Partie du châssis reliée au secteur.
Primärseite des Netzteils.
Parte dello châssis collegata alla rete.
Parte del chassis conectar a la red.
BP15 BP15A BP15B
To DEGAUSSING-COIL
CP15 68N0
RP15 16R0 9R0
TP15 BTB06-600C
TP14 BC546B
RP13 15R0
RP08 100R0
RP12 270R0
RP14 1K0
DP14 BZX55B3V3
RP11 470R0
CP13 470U0 16V
RP10 2R2 @1R5
CP12 100P0
DP12 RGP10G
: NC FOR (PP) 17200
RP02 1M0 0W7
LP01
CP01 100N0
FP01 T2.5AL
BP01 BP01A BP01B
Mainsvoltage AC MAINS
(180V-260V)
1060VPP T=12µs
15VPP T=12µs
TP50 BUH516TH16 S2000N
CP49 3N3 1K6V
DP50 RGP02-20
CP44 2N2
LP44
TP44 2SA1020-Y
CP43 1N0
DP44 BZX55C3V9
RP44 820R0 0W25
RP48 39R0
RP40 39R0
DP48 RGP10G
DP47 RGP10G
DP46 RGP10G
RP46 1K5
CP47 100N0
RP59 1K0
RP49 470MI0 2W5
DP43 RGP02-20
DP45 RGP02-20
TP42 BC856B BCR191
RP45 10K0
DP42 LL4148
RP43 3K3
RP42 6K8 10K
CP41 10N0
RP53 5K1 4K7
CP52 1U0 100V 1U0 63V
RP55 10K0 @8K2
CP54 1U0
DP52 LL4148
RP19 1K0 0W25
DP54 LL4148
DF41 RGP10G
CF42 330P0
RF52 100R0 0W25
RP54 100R0 0W25
DP53 1N4148
RP39 100R0 0W25
DP58 LL4148
TP57 BCR191
DP59 BZX55C18
CP58 22U0 50V
RP98 1K0
RP83 2K2 10K
RP58 1K0
TP58 BC846B
CP56 100N0
RP09 220R0
RP56 2K2 5K6
DP56 LL4148
DP57 LL4148
RP57 10R0
CP57 150P0
TP59 BC846B
CP59 1N5
RP28 100R0
HEAT-GND
BP85
BL80
ICC17
TL81 BC327-40
RL84 470R0
CL82 1MI0
RL85 5K6
RL81 1K8
RL80 22R0
DL81 BZX55C15
TL80 BC337-40
RL83 1K0
RL82 150R0
DL80 BZX55C27
CL80 47U0
EFC.17000.00 (TUBE 16/9)
PL80 47K0
TL82 BC337-40
DL82 1N4148
RL86 270R0
CL83 100N0
TL83 BC327-40
DL83 1N4148
RL87 270R0
BL81
BL82
EFC-coil
HEARTH FIELD CONNECTION COIL
▼: NC FOR (PP) 17200
▯ : SPECIFIC FOR (PP)17200
DP62 LL4148
DP63 LL4148
DP61 LL4148
DP60 LL4148
CP63 100U0 25V
RP60 2K2
RP66 1K0
RP69 33K0
RP76 270R0 0W25
U_STBY
CP72 10U0
CP73 10U0
5V_UP
(UP)
TP72 DTC113ZK
DP67 LL4148
TP67 BC846B
RP68 100R0
RP71 10R0 @22R0
CP69 220U0 25V
TP71 BC846B
RP73 470K0
10N0
STBY_ON
U_TIMER
RP61 1M0
CP61 100P0
IP61 TL431ACZ
RP62 475R0
PP64 1K0
RP64 8K25
DP70 LL4148
RP70 4K7
RP63 432K0 0W25
RP77 10K0
RP72 3K3 6K49
RP74 2K2 825R0
DP72 BZX55C5V1
TP75 BCR191
RP75 150K0 220K0
TP76 BC846B
RP81 1K0
RP82 1K2
TP82 BCR191
+5VON
+8V
U_VIDEO
CP83 100P0
DP82 MUR160
RGP10M
CP82 22U0 350V
RL65 * 0W25
LP82
JL82
JL81
JL80
LP80
CP81 1N0
DP80
MUR460 BYW76
CP80 100U0 200V
RP80 10K0 18K0 6K8
RP79 22K0 3K9 12K0
JP31
+33V
USYS
+200V
+12V
LP93
DP93 MUR120
CP94 330P0
470U0 CP93 16V
CP95 1N0
BP98
RP91 22K0 @33K0
RP93 10K0
TP90 BC846B
(ONLY SOME MODELS)
EFC
BP85
BL80
+UA
-UA
DP89 LL4148
RP89 100R0
RP90 10K0
CP89 470N0
LP84
CP85 330P0
MUR120 DP84 #
CP84 1MI0 50V
CP92 10N0
RP92 1R0
IP87 MC7812/CT
DP87 RGP02-20
DP86 # RGP10G
RP85 # 2K7 0W43
CP87 10U0
RP84 1K0
RP86 100R0
CP86 10N0
DP85 LL4148
+5VDST
DP83 BAT42
TP86 BC856B
RP87 10K0
+5VON
POWER_FAIL
(A,UP)
DP94 BZX55C13
CP96 470U0 16V
+5VUP
RP94 1K0
IP95 TDA8139
DIS
RESET
VO2
PROG
GND
DELAY
RP96 1K0
RESET
+8V
CP97 10U0
RP97 2K74
RP99 1K21
CP98 470N0
PO
PGND

Tube	Format	Usys	Jumper	RL65
A51EBV13X01	4:3	128V+/-0,5V	JL80	4k7
A51EFS83X191	4:3	126V+/-0,5V	JL80	4k7
A59EHJ43X15	4:3	132V+/-0,5V	JL81	24k
A66EHJ43X15	4:3	132V+/-0,5V	JL81	24k
A59EGD048X30	4:3	126V+/-0,5V	JL80	4k7
A68EGD038X30	4:3	126V+/-0,5V	JL80	4k7
A68EGD038X70	4:3	126V+/-0,5V	JL80	4k7
A68AGA25X01	4:3	126V+/-0,5V	JL80	4k7
A80AEJ15X01	4:3	126V+/-0,5V	JL80	4k7
A80AEJ15X99	4:3	126V+/-0,5V	JL80	4k7
W56EGV023X015	16:9	138V+/-0,5V	JL82	47k
W66EGV023X015	16:9	138V+/-0,5V	JL82	47k
W76EGV023X015	16:9	138V+/-0,5V	JL82	47k

Note :
During measurements in the power supply unit
- Use the primary power unit ground (PGND).

Attention :
Mesure dans le bloc alimentation
- Utiliser la masse du bloc alimentation (PGND).

Achtung :
Bei Messungen im Primärnetzteil
- Primärnetzteilmasse verwenden (PGND).

Attenzione :
misure nell'alimentatore primario
- usare massa alimentazione primario (PGND).

Cuidado :
Medida en el bloque de alimentacion
- Utilizar la masa del bloque de alimentacion (PGND).

#	DP84	LP50	DP86	RP85
PP 17000 00 / 17300 00	MUR120	10537860	-	X
PP 17004 00 / 17304 00	MUR420	10590560	X	-

▼: NC FOR (PP) 17200
▯ : SPECIFIC FOR (PP)17200

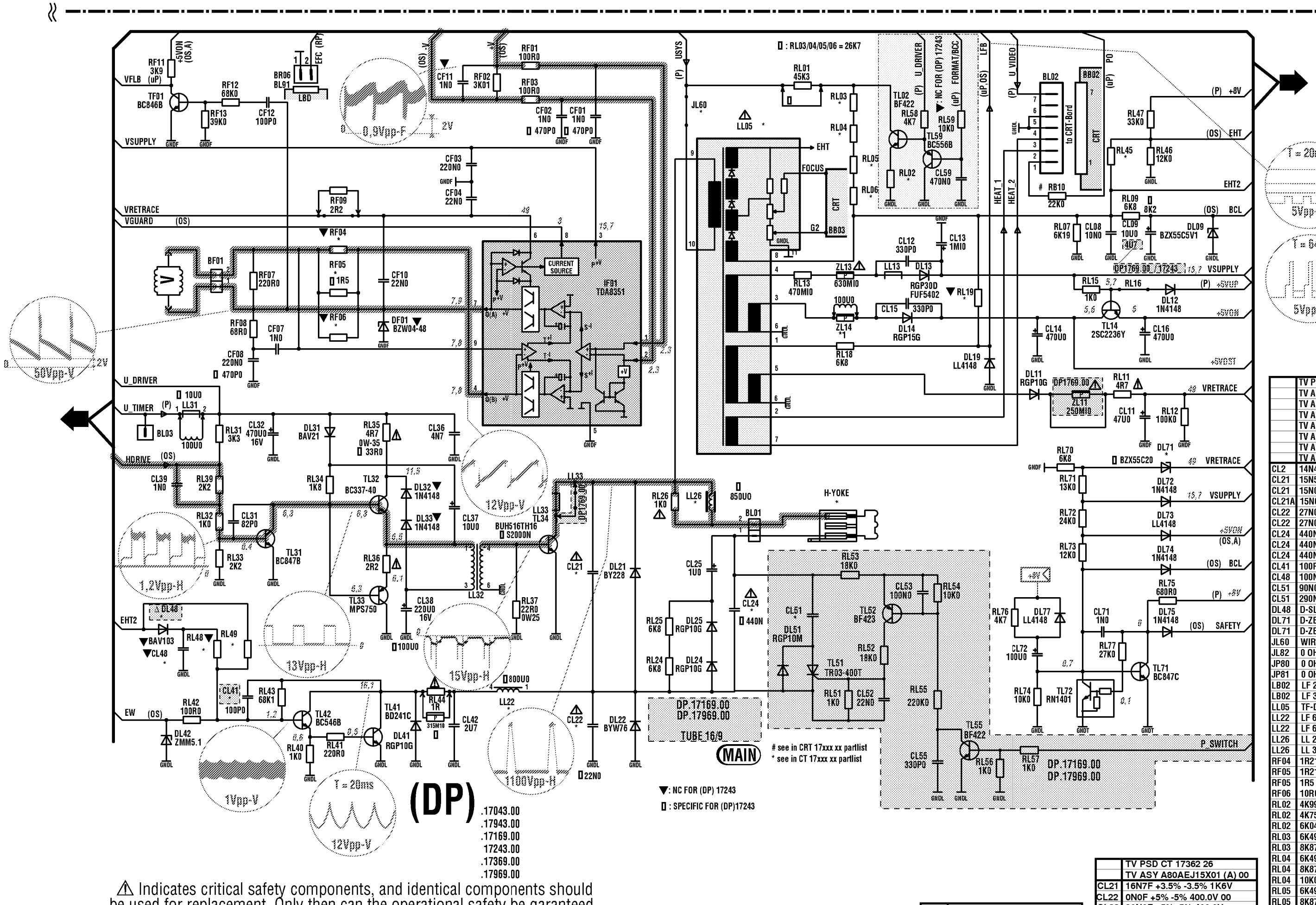
Partlist *	CT 17035	CT 17061	CT 17062	CT 17071	CT 17083	▯ DP17243
tube	21"OT	25",28"MP	33"MP	25",29"SF	24"-32"SF 16:9	21"MP
Usys	126V	132V	126V	126V	138V	126V
JL80-82	JL80	JL81	JL80	JL80	JL82	JL80
RL65	4K7	24K0	4K7	4K7	47K0	4K7

⚠ Sicherheitsbauteil
Bei Ersatz nur Originalteil verwenden

⚠ Safety Part
When repairing, use original part only

⚠ Piece de securite
N'utilisez que les pieces d'origine

SCANNING - BALAYAGE - ABLENKUNG - BARRIDO - SCANSIONE



VFLB (uP)
VSUPPLY
VRETRACE
VGUARD (OS)
U_DRIVER
U_TIMER (P)
HDRIVE (OS)
EHT2
EW (OS)
TF01 BC846B
RF11 3K9
RF12 68K0
RF13 39K0
CF12 100P0
BR06 BL91
LBD
EFC (RF)
+5VON (OS,A)
(OS) -V
+V (OS)
CF11 1N0
RF02 3K01
RF01 100R0
RF03 100R0
CF02 1N0
CF01 1N0
470P0
0,9Vpp-F
2V
CF03 220N0
CF04 22N0
RF09 2R2
RF04
RF05 1R5
RF06
RF07 220R0
CF10 22N0
BF01
DF01 BZW04-48
RF08 68R0
CF07 1N0
CF08 220N0
470P0
IF01 TDA8351
CURRENT SOURCE
50Vpp-V
12V
BL03
10U0
LL31
100U0
RL31 3K3
CL32 470U0 16V
DL31 BAV21
RL35 4R7 0W-35
33R0
CL36 4N7
CL39 1N0
RL39 2K2
RL32 1K0
CL31 82P0
RL33 2K2
TL31 BC847B
RL34 1K8
TL32 BC337-40
DL32 1N4148
DL33 1N4148
CL37 10U0
TL33 MPS750
RL36 2R2
CL38 220U0 16V
100U0
RL37 22R0 0W25
12Vpp-V
1,2Vpp-H
13Vpp-H
15Vpp-H
LL33 TL34
BU516TH16 S2000N
LL32
DL48
BAV103
CL48
RL48
RL49
CL41 100P0
RL43 68K1
TL42 BC546B
TL41 BD241C
RL40 1K0
RL41 220R0
RL42 100R0
DL42 ZMM5.1
DL41 RGP10G
CL42 2U7
LL22
800U0
1Vpp-V
T = 20ms
12Vpp-V
1100Vpp-H
22N0
(DP)
.17043.00
.17943.00
.17169.00
.17369.00
.17969.00
USYS
JL60
LL05
RL26 1K0
LL26
850U0
CL21
DL21 BY228
CL25 1U0
RL25 6K8
DL25 RGP10G
RL24 6K8
DL24 RGP10G
CL24
440N
CL22
DL22 BYW76
DP.17169.00
DP.17969.00
TUBE 16/9
MAIN
H-YOKE
BL01
RL53 18K0
CL53 100N0
RL54 10K0
CL51
DL51 RGP10M
TL52 BF423
RL52 18K0
TL51 TR03-400T
RL51 1K0
CL52 22N0
RL55 220K0
CL55 330P0
TL55 BF422
RL56 1K0
RL57 1K0
P_SWITCH
DP.17169.00
DP.17969.00
# see in CRT 17xxx xx partlist
* see in CT 17xxx xx partlist
▼: NC FOR (DP) 17243
▯ : SPECIFIC FOR (DP)17243
▯ : RL03/04/05/06 = 26K7
RL01 45K3
RL03
RL04
RL05
RL06
RL02
EHT
FOCUS
CRT
G2
BB03
U_DRIVER
NC FOR (DP) 17243
FORMAT/BCC
LF8
U_VIDEO
TL02 BF422
RL58 4K7
RL59 10K0
TL59 BC556B
CL59 470N0
HEAT_1
HEAT_2
BL02
BB02
to CRT-Bord
CRT
RB10 22K0
ZL13 630M0
LL13
DL13
RL13 470M0
100U0
ZL14
RL18 6K8
CL15 330P0
DL14 RGP15G
RGP30D EUF5402
RL19
DL19 LL4148
CL12 330P0
CL13 1M0
RL07 6K19
CL08 10N0
CL09 10U0
RL09 6K8
8K2
DL09 BZX55C5V1
RL15 1K0
RL16
DL12 1N4148
TL14 2SC2236Y
CL14 470U0
CL16 470U0
DL11 RGP10G
DP1769.00
ZL11 250M0
RL11 4R7
CL11 47U0
RL12 100K0
RL47 33K0
RL45
RL46 12K0
(P) +8V
(OS) EHT
EHT2
(OS) BCL
VSUPPLY
(P) +5VUP
+5VON
+5VDST
VRETRACE
T = 20ms
5Vpp-V
T = 64µs
5Vpp-H
RL70 6K8
BZX55C20
DL71
RL71 13K0
DL72 1N4148
VSUPPLY
RL72 24K0
DL73 LL4148
+5VON (OS,A)
RL73 12K0
DL74 1N4148
(OS) BCL
RL75 680R0
(P) +8V
DL75 1N4148
(OS) SAFETY
RL76 4K7
DL77 LL4148
CL71 1N0
CL72 100U0
RL77 27K0
TL71 BC847C
RL74 10K0
TL72 RM1401

⚠ Indicates critical safety components, and identical components should be used for replacement. Only then can the operational safety be garanteed.

Le remplacement des éléments de sécurité (repérés avec le symbole ⚠) par des composants non homologués selon la Norme CEI 65 entraine la non-conformité de l'appareil.
Dans ce cas, la responsabilité du fabricant n'est plus engagée.

Wenn Sicherheitsteile (mit dem Symbol ⚠ gekennzeichnet) durch nicht normgerechte Teile ersetzt werden, erlischt die Haftung des Herstellers.

La sostituzione degli elementi di sicurezza (contrassegnati con il segno ⚠) con componenti non omologati secondo la norma CEI 65 comporta la non conformitá dell'apparecchio.
In tal caso é “esclusa la responsabilità” del costruttore.

La subtitución de elementos de seguridad (marcados con el simbolo ⚠) por componentes no homologados segun la norma CEI 65, provoca la no conformidad del aparato.
En ese caso, el fabricante cesa de ser responsable.

	TV PSD CT 17335 26
	TV ASY A51EFS83X191 03
CL21	8N8F +3.5% -3.5% 1K6V
CL22	30N0F +5% -5% 400.0V
CL22	30N0F +5% -5% 400.0V
CL24	440N0F +5% -5% 250.0V
CL41	1N0F +10% -10% 50.0V
DL71	D-ZENER BZX55C20 20V 500MI0W
JL60	WIREBARE 22
JL80	0 OHM +0% 100MI0W
LB02	LF 21U0H +5% -5%
LL05	TF-DST M30FBC3
LL22	LF 650U0H +5% -5%
LL26	LL 39U0H +10%
RF05	1R21 OHM +1% 700MI0W
RL02	6K2 OHM +5% 100MI0W
RL03	10K0 OHM +1% +100MI0W
RL04	10K0 OHM +1% +100MI0W
RL05	10K0 OHM +1% +100MI0W
RL06	3K32 OHM +1% +100MI0W
RL06	3K32 OHM +1% +100MI0W
RL19	18K0 OHM +5% 100MI0W
RL35	33R0 OHM +5% 700MI0W
RL45	110K0 OHM +5% 100MI0W
RL49	60K4 OHM +1% +100MI0W
RL65	4K7 OHM +5% 250MI0W
RV20	33K2 OHM +1% 250MI0W

	TV PSD CT 17362 26
	TV ASY A80AEJ15X01 (A) 00
CL21	16N7F +3.5% -3.5% 1K6V
CL22	0N0F +5% -5% 400.0V 00
CL22	30N0F +5% -5% 400.0V
CL24	560N0F +5% -5% 250.0V
CL41	100P0F +10% -10% 50.0V
CL48	10N0F +10% 100.0V
DL48	D-SLP BAV103 200.0V
DL71	BZX55B24 24V 500MI0W
JL60	WIREBARE 22
JL80	0 OHM +0% 100MI0W
LB02	LF 32U0H +4% -4%
LB02	LF 21U0H +5% -5%
LL05	TF-DST TDS29
LL05	TF-DST M30FBC
LL22	LF 650U0H +/-5% EAST-WEST
LL26	LL 22U0H +10%
RF05	1R0 OHM +1% 700MI0W
RL02	6K2 OHM +5% 100MI0W
RL03	4K75 OHM +1% 100MI0W
RL04	4K75 OHM +1% 100MI0W
RL05	4K75 OHM +1% 100MI0W
RL06	10K0 OHM +1% 100MI0W
RL19	13K0 OHM +5% 100MI0W
RL35	4R7 OHM +5% 250MI0W
RL45	150K0 OHM +5% 100MI0W
RL48	76K8 OHM +1% 100MI0W
RL49	560K0 OHM +5% 100MI0W
RL65	4K7 OHM +5% 250MI0W
RV20	33K2 OHM +1% 250MI0W

	TV PSD CT 17083 38
	TV ASY W56EGV023X015 56 01
	TV ASY W56EGV023X015 56 01
	TV ASY W66EGV023X015 66 00
	TV ASY W66EGV023X015 66 00
	TV ASY W66EGV023X015 66 01
	TV ASY W76EGV023X015 (A) 00
	TV ASY W76EGV023X015 (A) 00
CL2	14N4F +3.5% -3.5% 1K6V
CL21	15N5F +3.5% -3.5% 1K6V
CL21	15N0F +3.5% -3.5% 2K0V
CL21A	15N0F +3.5% -3.5% 1K6V
CL22	27N0F +5% -5% 400.0V
CL22	27N0F +5% -5% 1K0V
CL24	440N0F +5% -5% 250.0V
CL24	440N0F +5% -5% 400.0V
CL24	440N0F +5% -5% 250.0V
CL41	100P0F +10% -10% 50.0V
CL48	100N0F +5% 63.0V
CL51	90N0F +5% -5% 250.0V
CL51	290N0F +5% -5% 400.0V
DL48	D-SLP BAV103 200.0V
DL71	D-ZENER BZX55C20 20V 500MI0W
DL71	D-ZENER BZX55C24 24V 500MI0W
JL60	WIREBARE 22
JL82	0 OHM +0%
JP80	0 OHM +0%
JP81	0 OHM +0%
LB02	LF 29U0H +4% -4%
LB02	LF 32U0H +4% -4%
LL05	TF-DST TDS29
LL22	LF 650U0H +5% -5%
LL22	LF 650U0H +5% -5% EAST-WEST
LL26	LL 26U5H +10%
LL26	LL 30U5H 2519 A0
RF04	1R21 OHM +1% 700MI0W
RF05	1R21 OHM +1% 700MI0W
RF05	1R5 OHM +1% 700MI0W
RF06	10R0 OHM +1% +100PPM/°C
RL02	4K99 OHM +1% +100PPM/°C
RL02	4K75 OHM +1% +100PPM/°C
RL02	6K04 OHM +1% +100PPM/°C
RL03	6K49 OHM +1% +100PPM/°C
RL03	8K87 OHM +1% +100PPM/°C
RL04	6K49 OHM +1% +100PPM/°C
RL04	8K87 OHM +1% +100PPM/°C
RL04	10K0 OHM +1% +100PPM/°C
RL05	6K49 OHM +1% +100PPM/°C
RL05	8K87 OHM +1% +100PPM/°C
RL05	10K0 OHM +1% +100PPM/°C
RL06	6K49 OHM +1% +100PPM/°C
RL06	8K87 OHM +1% +100PPM/°C
RL06	3K32 OHM +1% +100PPM/°C
RL06	2K37 OHM +1% +100PPM/°C
RL11	4R7 OHM +10% 250MI0W
RL11	4R7 OHM +5% 250MI0W
RL19	15K0 OHM +5%
RL19	13K0 OHM +5%
RL43	68K1 OHM +1% 250MI0W
RL43	68K1 OHM +1% +100PPM/°C
RL45	470K0 OHM +5%
RL45	390K0 OHM +5%
RL46	12K0 OHM +5%
RL47	33K0 OHM +5%
RL48	1K0 OHM +5%
RL48	220K0 OHM +5%
RL48	237K0 OHM +1% +100PPM/°C
RL49	180K0 OHM +5%
RL49	143K0 OHM +1% +100PPM/°C
RL64	8K25 OHM +1% +100PPM/°C
RL65	47K0 OHM +5% 250MI0W
RV20	100K0 OHM +1% 250MI0W
RV20	33K2 OHM +1% +100PPM/°C
RV20	100K0 OHM +1% 250MI0W
ZL13	MP63 630MI0 A 65.0V

	TV PSD CT 17383 38
	TV ASY W56EGV023X015 56 01
	TV ASY W66EJU023X015 66 00
	TV ASY W76EGV023X015 (A) 00
CL21	15N0F +3.5% -3.5% 1K6V
CL22	27N0F +5% -5% 400.0V
CL24	440N0F +5% -5% 250.0V
CL41	100P0F +10% -10% 50.0V
CL48	100N0F +5% 63.0V
CL48	100N0F +5% 63.0V 85C
CL51	290N0F +5% -5% 250.0V
DL48	BAV103 200.0V
DL71	ZENER BZX55C20 20V 500MI0W
JL60	WIREBARE 22
JL82	0 OHM +0% 100MI0W
LB02	LF 32U0H +4% -4%
LB02	LF 21U0H +5% -5%
LL05	TF-DST TDS29 15393000 16
LL05	TF-DST M30FBC
LL22	LF 650U0H +5% -5%
LL26	LL 26U5H +10%
RF05	1R21 OHM +1% 700MI0W
RL02	4K75 OHM +1% +100MI0W
RL03	6K49 OHM +1% +100MI0W
RL04	6K49 OHM +1% +100MI0W
RL05	6K49 OHM +1% +100MI0W
RL06	3K32 OHM +1% +100MI0W
RL06	3K32 OHM +1% +100MI0W
RL19	22K0 OHM +5% 100MI0W
RL35	4R7 OHM +5% 250MI0W
RL45	150K0 OHM +5% 100MI0W
RL48	130K0 OHM +5% 100MI0W
RL49	220K0 OHM +5% 100MI0W
RL65	47K0 OHM +5% 250MI0W
RV20	100K0 OHM +1% 250MI0W

	TV PSD CT 17061 32
	TV ASY A66EHJ43X15 00
	TV ASY A59EHJ43X15 00
CL21	14N4F +3.5% -3.5% 1K6V
CL21	14N4F +3.5% -3.5% 1K6V
CL21	14N0F +3.5% -3.5% 1K5V
CL22	30N0F +5% -5% 400.0V
CL22	30N0F +5% -5% 400.0V
CL22	30N0F +5% -5% 1K0V
CL24	440N0F +5% -5% 400.0V
CL24	470N0F +5% -5% 250.0V
CL24	440N0F +5% -5% 250.0V
CL24	440N0F +5% -5% 250.0V
CL24A	440N0F +5% -5% 250.0V
CL41	100P0F +10% -10% 50.0V
CL48	10N0F +10% 63.0V
CL48	10N0F +10% 100.0V
DL48	BAV103 200.0V
DL71	BZX55B24 24V 500MI0W
DL71	BZX55C24 24V 500MI0W
DL71	BZX55C30 30V 500MI0W
JL60	WIREBARE 22
JL81	0 OHM +0% 100MI0W
JP80	0 OHM +0% 100MI0W
LB02	13U5H +5% -5%
LB02	18U0H +7% -7%
LB02	21U0H +5% -5%
LB02	21U0H +5% -5%
LL05	TF-DST M30FBC3 10546610 3087
LL05	TF-DST M30FBC3 10600190 3087
LL05	TF-DST M30FBC3 10608680 3087
LL22	650U0H +5% -5%
LL22	650U0H +5% -5% EAST-WEST
LL26	26U5H +10%
LL26	30U5H 2519 A0
RF04	1R21 OHM +1% 700MI0W
RF05	1R0 OHM +1% 700MI0W
RF05	1R21 OHM +1% 700MI0W
RF06	12R1 OHM +1% 100MI0W
RL02	10K0 OHM +5% 100MI0W
RL02	6K04 OHM +1% 100MI0W
RL02	499R0 OHM +1% 100MI0W
RL03	10K0 OHM +1% 100MI0W
RL03	11K5 OHM +1% 100MI0W
RL04	10K0 OHM +1% 100MI0W
RL04	20K0 OHM +1% 100MI0W
RL04	11K5 OHM +1% 100MI0W
RL05	10K0 OHM +1% 100MI0W
RL05	20K0 OHM +1% 100MI0W
RL05	11K5 OHM +1% 100MI0W
RL06	8K25 OHM +1% 100MI0W
RL06	4K75 OHM +1% 100MI0W
RL06	9K09 OHM +1% 100MI0W
RL06	11K5 OHM +1% 100MI0W
RL11	4R7 OHM +10% 250MI0W
RL11	4R7 OHM +5% 250MI0W
RL19	22K0 OHM +5% 100MI0W
RL19	33K0 OHM +5% 100MI0W
RL43	68K1 OHM +1% 250MI0W
RL43	68K1 OHM +1% 250MI0W
RL43	68K1 OHM +1% 100MI0W
RL45	180K0 OHM +5% 100MI0W
RL45	270K0 OHM +5% 100MI0W
RL46	12K0 OHM +5% 100MI0W
RL47	33K0 OHM +5% 100MI0W
RL48	76K8 OHM +1% 100MI0W
RL48	60K4 OHM +1% 100MI0W
RL64	8K25 OHM +1% 100MI0W
RL65	24K0 OHM +5% 250MI0W
RV20	33K2 OHM +1% 250MI0W
RV20	33K2 OHM +1% 100MI0W
ZL13	MP63 630MI0 A 65.0V

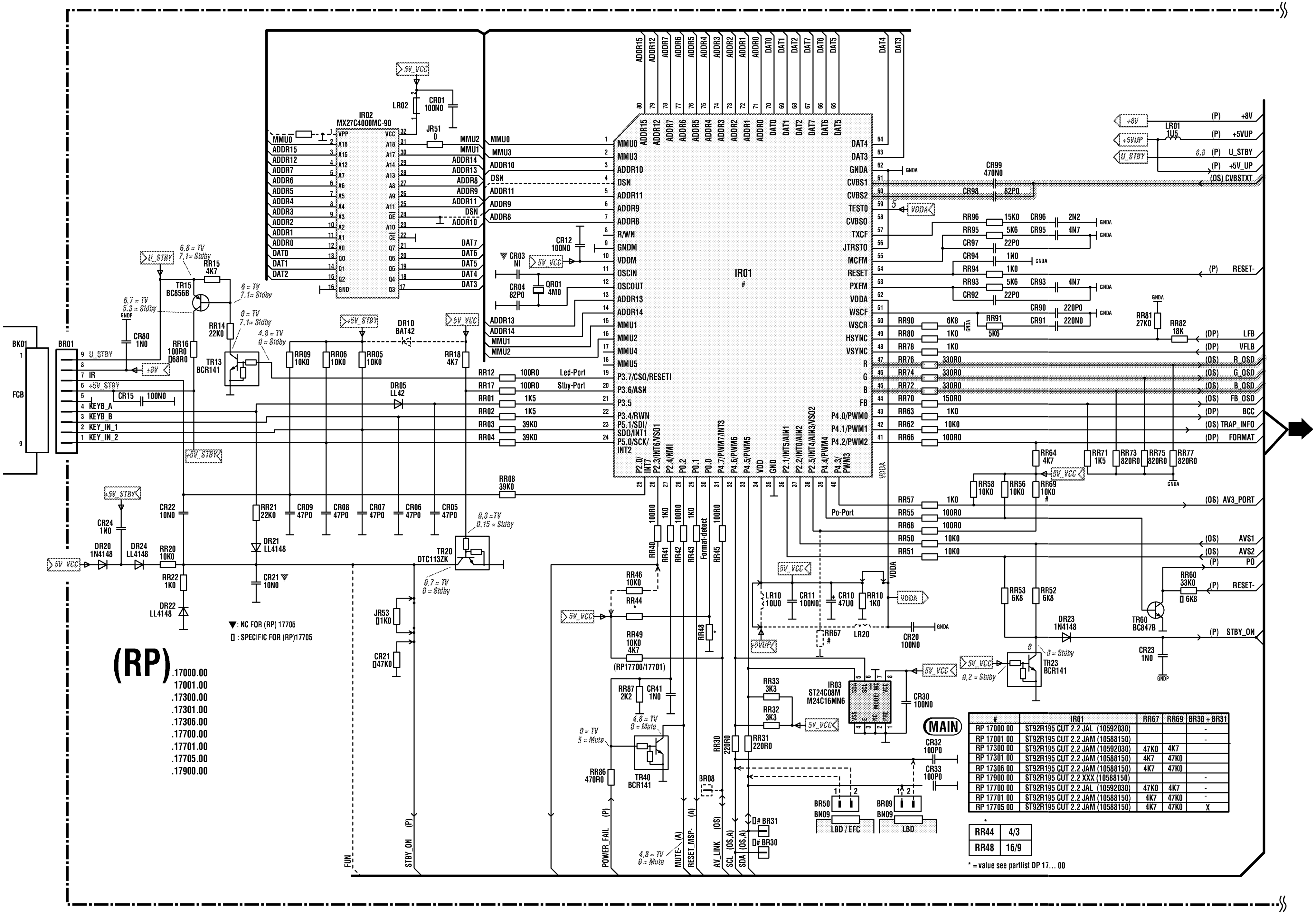
	TV PSD CT 17071 26
	TV ASY A59EGD048X30 19
	TV ASY A59EGD048X30 19
	TV ASY A68EGD038X30 (A) 68 00
	TV ASY A68EGD038X30 (A) 68 00
	TV ASY A68EJV038X30 68 00
	TV ASY A80AEJ15X01 (A) 00
CL21	16N2F +3.5% -3.5% 1K6V
CL21	16N2F +3.5% -3.5% 1K6V
CL21	16N2F +3.5% -3.5% 2K0V
CL21A	16N2F +3.5% -3.5% 1K6V
CL22	30N0F +5% -5% 400.0V
CL22	30N0F +5% -5% 400.0V
CL22	30N0F +5% -5% 1K0V
CL22	30N0F +5% -5% 400.0V
CL24	560N0F +5% -5% 250.0V
CL24	510N0F +5% -5% 250.0V
CL24	560N0F +5% -5% 250.0V
CL24	510N0F +5% -5% 250.0V
CL41	100P0F +10% -10% 50.0V
CL48	10N0F +10% 63.0V
CL48	10N0F +10% 100.0V
DL48	D-SLP BAV103 200.0V
DL71	D-ZENER BZX55B24 24V 500MI0W
DL71	D-ZENER BZX55C24 24V 500MI0W
DL71	D-ZENER BZX55C24 24V 500MI0W
DL71	D-ZENER BZX55C30 30V 500MI0W
JL60	WIREBARE 22
JL80	RCFCCMIN 0 OHM +0% 100MI0W
LB02	LF 29U0H +4% -4%
LB02	LF 32U0H +4% -4%
LL05	TF-DST TDS29 15314470 11
LL05	TF-DST TDS29 15328730 13
LL05	TF-DST TDS29 15393020 15
LL22	LF 650U0H +5% -5%
LL22	LF 650U0H +5% -5% EAST-WEST
LL26	LL 26U5H +10%
LL26	LL 22U0H +10%
RF04	1R82 OHM +1% 700MI0W
RF05	1R0 OHM +1% 700MI0W
RF05	1R21 OHM +1% 700MI0W
RF05	1R82 OHM +1% 700MI0W
RF06	10R0 OHM +1% 100MI0W
RL02	6K8 OHM +5% 100MI0W
RL02	6K04 OHM +1% 100MI0W
RL03	4K75 OHM +1% 100MI0W
RL04	7K5 OHM +1% 100MI0W
RL04	4K75 OHM +1% 100MI0W
RL05	7K5 OHM +1% 100MI0W
RL05	4K75 OHM +1% 100MI0W
RL06	4K75 OHM +1% 100MI0W
RL11	4R7 OHM +5% 250MI0W
RL19	15K0 OHM +5% 100MI0W
RL19	18K0 OHM +5% 100MI0W
RL35	4R7 OHM +5% 250MI0W
RL43	68K1 OHM +1% 250MI0W
RL45	180K0 OHM +5% 100MI0W
RL45	470K0 OHM +5% 100MI0W
RL46	12K0 OHM +5% 100MI0W
RL47	33K0 OHM +5% 100MI0W
RL48	100K0 OHM +5% 100MI0W
RL48	100K0 OHM +1% 100MI0W
RL48	130K0 OHM +5% 100MI0W
RL49	300K0 OHM +5% 100MI0W
RL49	330K0 OHM +5% 100MI0W
RL49	1M0 OHM +5% 100MI0W
RL64	8K25 OHM +1% 100MI0W
RL65	4K7 OHM +5% 250MI0W
RV20	33K2 OHM +1% 250MI0W
ZL13	MP63 630MI0 A 65.0V
ZL13	MP80 800MI0 A 65.0V

	TV PSD CT 17361 32
	TV ASY A59EHJ43X15 00
	TV ASY A66EHJ43X15 00
CL21	14N4F +3.5% -3.5% 1K6V
CL22	30N0F +5% -5% 400.0V
CL22	30N0F +5% -5% 400.0V
CL24	440N0F +5% -5% 250.0V
CL41	100P0F +5% -5% 50.0V
CL41	100P0F +10% -10% 50.0V
CL48	0N0F +10% 100.0V
DL48	BAV103 200.0V
DL71	BZX55B24 24V 500MI0W
JL60	WIREBARE 22
JL81	0 OHM +0% 100MI0W
LB02	LF 21U0H +5% -5%
LL05	TF-DST M30FB3
LL05	TF-DST M30FBC3
LL05	TF-DST M30FBC3
LL22	LF 650U0H +5% -5%
LL26	LL 26U5H +10%
RF05	1R0 OHM +1% 700MI0W
RL02	10K0 OHM +5% 100MI0W
RL03	10K0 OHM +1% +100MI0W
RL04	10K0 OHM +1% +100MI0W
RL05	10K0 OHM +1% +100MI0W
RL06	8K25 OHM +1% +100MI0W
RL19	22K0 OHM +5% 100MI0W
RL35	4R7 OHM +5% 250MI0W
RL45	180K0 OHM +5% 100MI0W
RL48	76K8 OHM +1% +100MI0W
RL65	24K0 OHM +5% 250MI0W
RV20	33K2 OHM +1% 250MI0W

	TV PSD CT 17035 26
	TV ASY A51EFS83X191 03
CL21	8N3F +3.5% -3.5% 2K0V
CL21	8N3F +3.5% -3.5% 1K6V
CL21	8N8F +3.5% -3.5% 1K6V
CL21A	8N3F +3.5% -3.5% 1K6V
CL22	33N0F +5% -5% 400.0V
CL22	30N0F +5% -5% 400.0V
CL22	33N0F +5% -5% 1K0V
CL24	440N0F +5% -5% 400.0V
CL24	440N0F +5% -5% 250.0V
CL24	440N0F +5% -5% 250.0V
CL24A	440N0F +5% -5% 250.0V
CL41	1N0F +10% -10% 50.0V
CL48	100N0F +5% 63.0V
DL71	D-ZENER BZX55C20 20V 500MI0W
DL71	D-ZENER BZX55C24 24V 500MI0W
DL71	D-ZENER BZX55C30 30V 500MI0W
JL60	WIREBARE 22
JL80	0 OHM +0%
JP81	0 OHM +0%
LB02	LF 18U0H +7% -7%
LB02	LF 21U0H +5% -5%
LL05	F-DST M30FBC3 10555640 3087
LL22	LF 650U0H +5% -5%
LL22	LF 650U0H +5% -5% EAST-WEST
LL26	LL 85U0H 2519 A0
LL26	LL 39U0H +10%
RF04	1R21 OHM +1% 700MI0W
RF05	1R21 OHM +1% 700MI0W
RF05	1R5 OHM +1% 700MI0W
RF06	10R0 OHM +1% +100PPM/°C
RL02	6K2 OHM +5%
RL02	6K04 OHM +1%
RL03	10K0 OHM +1%
RL04	10K0 OHM +1%
RL04	20K0 OHM +1%
RL05	10K0 OHM +1%
RL0	20K0 OHM +1%
RL06	10K0 OHM +1%
RL06	3K32 OHM +1%
RL11	4R7 OHM +10% 250MI0W
RL11	4R7 OHM +5% 250MI0W
RL19	18K0 OHM +5%
RL43	68K1 OHM +1% 250MI0W
RL43	68K1 OHM +1%
RL45	82K0 OHM +5%
RL45	110K0 OHM +5%
RL45	470K0 OHM +5%
RL46	12K0 OHM +5%
RL47	33K0 OHM +5%
RL48	100K0 OHM +1%
RL49	76K8 OHM +1%
RL49	60K4 OHM +1%
RL64	8K25 OHM +1%
RL65	4K7 OHM +5% 250MI0W
RV20	3K7 OHM +1% 250MI0W
RV20	33K2 OHM +1% 250MI0W
RV20	33K2 OHM +1%
ZL13	MP63 630MI0 A 65.0V

	TV PSD CT 17062 26
	TV ASY A80AEJ15X01 (A) 00
CL21	16N2F +3.5% -3.5% 1K6V
CL21	16N5F +3.5% -3.5% 2K0V
CL21	16N7F +3.5% -3.5% 1K6V
CL21A	16N5F +3.5% -3.5% 1K6V
CL22	30N0F +5% -5% 400.0V
CL22	30N0F +5% -5% 1K0V
CL22	30N0F +5% -5% 400.0V
CL24	560N0F +5% -5% 250.0V
CL24	560N0F +5% -5% 250.0V
CL41	100P0F +10% -10% 50.0V
CL48	10N0F +10% 63.0V
CL48	10N0F +10% 100.0V
DL48	D-SLP BAV103 200.0V
DL71	D-ZENER BZX55B24 24V 500MI0W
DL71	D-ZENER BZX55C24 24V 500MI0W
DL71	D-ZENER BZX55C30 30V 500MI0W
JL60	WIREBARE 22
JL80	0 OHM +0% 100MI0W
LB02	LF 32U0H +4% -4%
LL05	TF-DST TDS29 15314470 11
LL05	TF-DST TDS29 15393010 14
LL22	LF 650U0H +5% -5%
LL22	LF 650U0H +5% -5% EAST-WEST
LL26	LL 26U5H +10%
LL26	LL 22U0H +10%
RF05	1R0 OHM +1% 700MI0W
RF05	1R21 OHM +1% 700MI0W
RF06	10R0 OHM +1% 100MI0W
RL02	6K2 OHM +5% 100MI0W
RL02	6K04 OHM +1% 100MI0W
RL03	4K75 OHM +1% 100MI0W
RL04	4K75 OHM +1% 100MI0W
RL05	4K75 OHM +1% 100MI0W
RL06	6K81 OHM +1% 100MI0W
RL06	10K0 OHM +1% 100MI0W
RL19	13K0 OHM +5% 100MI0W
RL35	4R7 OHM +5% 250MI0W
RL45	150K0 OHM +5% 100MI0W
RL48	76K8 OHM +1% 100MI0W
RL48	100K0 OHM +5% 100MI0W
RL49	560K0 OHM +5% 100MI0W
RL65	4K7 OHM +5% 250MI0W
RV20	23K7 OHM +1% 250MI0W
RV20	33K2 OHM +1% 250MI0W

CONTROL MICROPROCESSOR - MICROPROCESSEUR DE COMMANDE - MIKROPROZESSOR - MICROPROCESSORE DEI COMANDI - MICROPROCESADOR DE LOS MANDOS



IR01
IR02
MX27C4000MC-90
IR03
ST24C08M
M24C16MN6
BK01
BR01
FCB
U_STBY
+8V
IR
+5V_STBY
KEYB_A
KEYB_B
KEY_IN_1
KEY_IN_2
TR15
BC856B
TR13
BCR141
TR20
DTC113ZK
TR23
BCR141
TR40
BCR141
TR60
BC847B
QR01
4M0
DR10
BAT42
DR05
LL42
LR01
1U5
LR10
10U0
LR20
5V_VCC
VDDA
+5VUP
Led-Port
Stby-Port
Po-Port
Format-detect
(P) +8V
(P) +5VUP
(P) U_STBY
(P) +5V_UP
(OS) CVBSTXT
(P) RESET-
(DP) LFB
(DP) VFLB
(OS) R_OSD
(OS) G_OSD
(OS) B_OSD
(OS) FB_OSD
(DP) BCC
(OS) TRAP_INFO
(DP) FORMAT
(OS) AV3_PORT
(OS) AVS1
(OS) AVS2
(P) PO
(P) RESET-
(P) STBY_ON
FUN
STBY_ON (P)
POWER_FAIL (P)
MUTE- (A)
RESET_MSP- (A)
AV_LINK (OS)
SCL (OS,A)
SDA (OS,A)
BR50
BR09
BN09
LBD / EFC
LBD
BR08
BR30
BR31
(RP17700/17701)
0,3 = TV
0,15 = Stdby
0,7 = TV
0 = Stdby
4,8 = TV
0 = Mute
5 = Mute
6,8 = TV
7,1= Stdby
MAIN

▼: NC FOR (RP) 17705

▯ : SPECIFIC FOR (RP)17705

(RP)
.17000.00
.17001.00
.17300.00
.17301.00
.17306.00
.17700.00
.17701.00
.17705.00
.17900.00

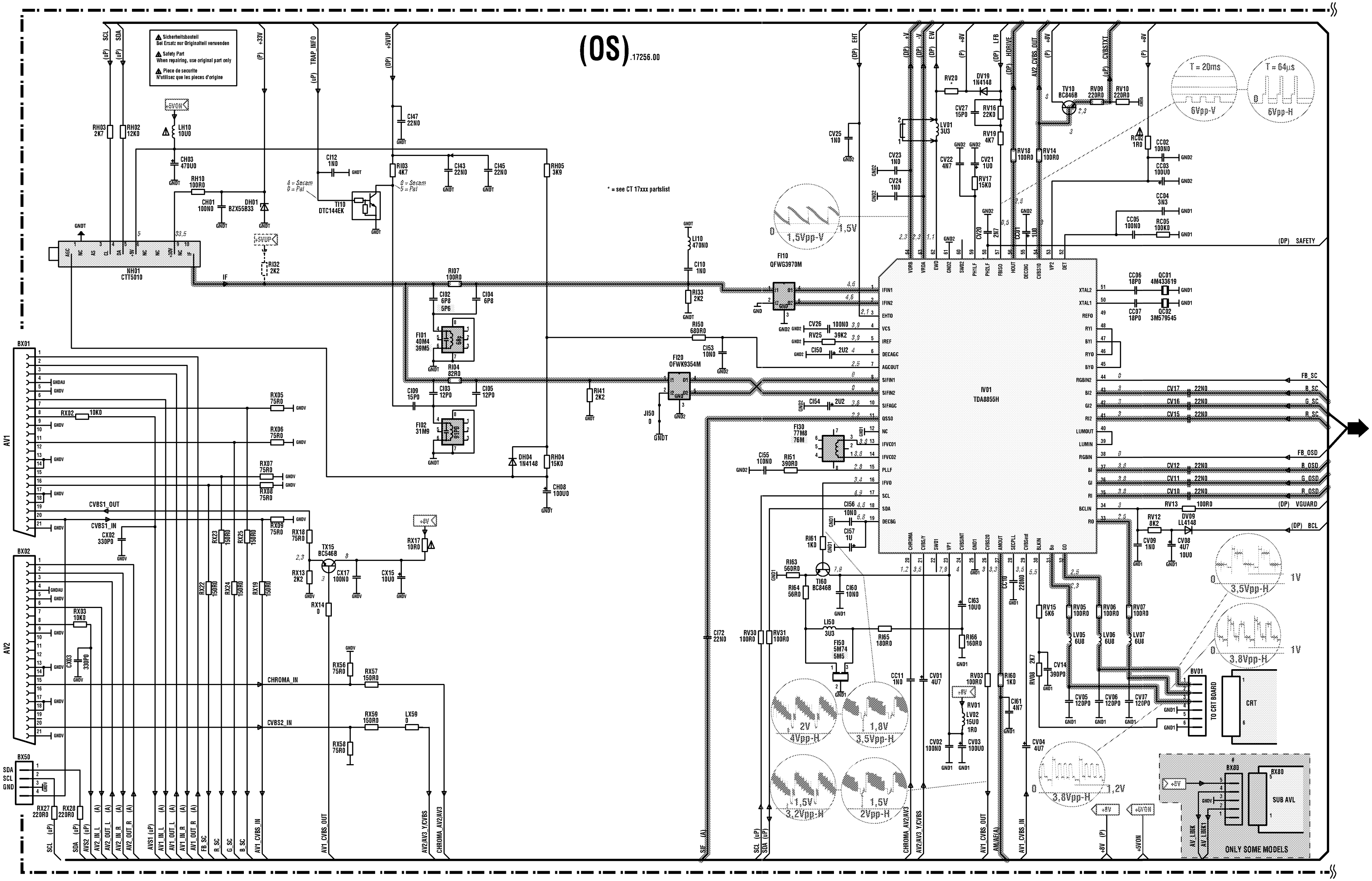
#	IR01	RR67	RR69	BR30 + BR31
RP 17000 00	ST92R195 CUT 2.2 JAL (10592030)			-
RP 17001 00	ST92R195 CUT 2.2 JAM (10588150)			-
RP 17300 00	ST92R195 CUT 2.2 JAM (10592030)	47K0	4K7	
RP 17301 00	ST92R195 CUT 2.2 JAM (10588150)	4K7	47K0	
RP 17306 00	ST92R195 CUT 2.2 JAM (10588150)	4K7	47K0	
RP 17900 00	ST92R195 CUT 2.2 XXX (10588150)			-
RP 17700 00	ST92R195 CUT 2.2 JAL (10592030)	47K0	4K7	-
RP 17701 00	ST92R195 CUT 2.2 JAM (10588150)	4K7	47K0	-
RP 17705 00	ST92R195 CUT 2.2 JAM (10588150)	4K7	47K0	X

*

RR44	4/3
RR48	16/9

* = value see partlist DP 17… 00

RF/FI/ SCART INTERFACE/VIDEO SIGNAL PROCESSING -HF/FI INTERFACE PERITELEVISION/TRAITEMENT LUMINANCE CHROMINANCE - HF/ZF/ SCART INTERFACE/VIDEO SIGNALVERARBEITUNG - RF/FI /PRESA PERITEL/ELABORAZIONE VIDEO - RF/FI /EUROCONECTOR/TRATAMENTO VIDEO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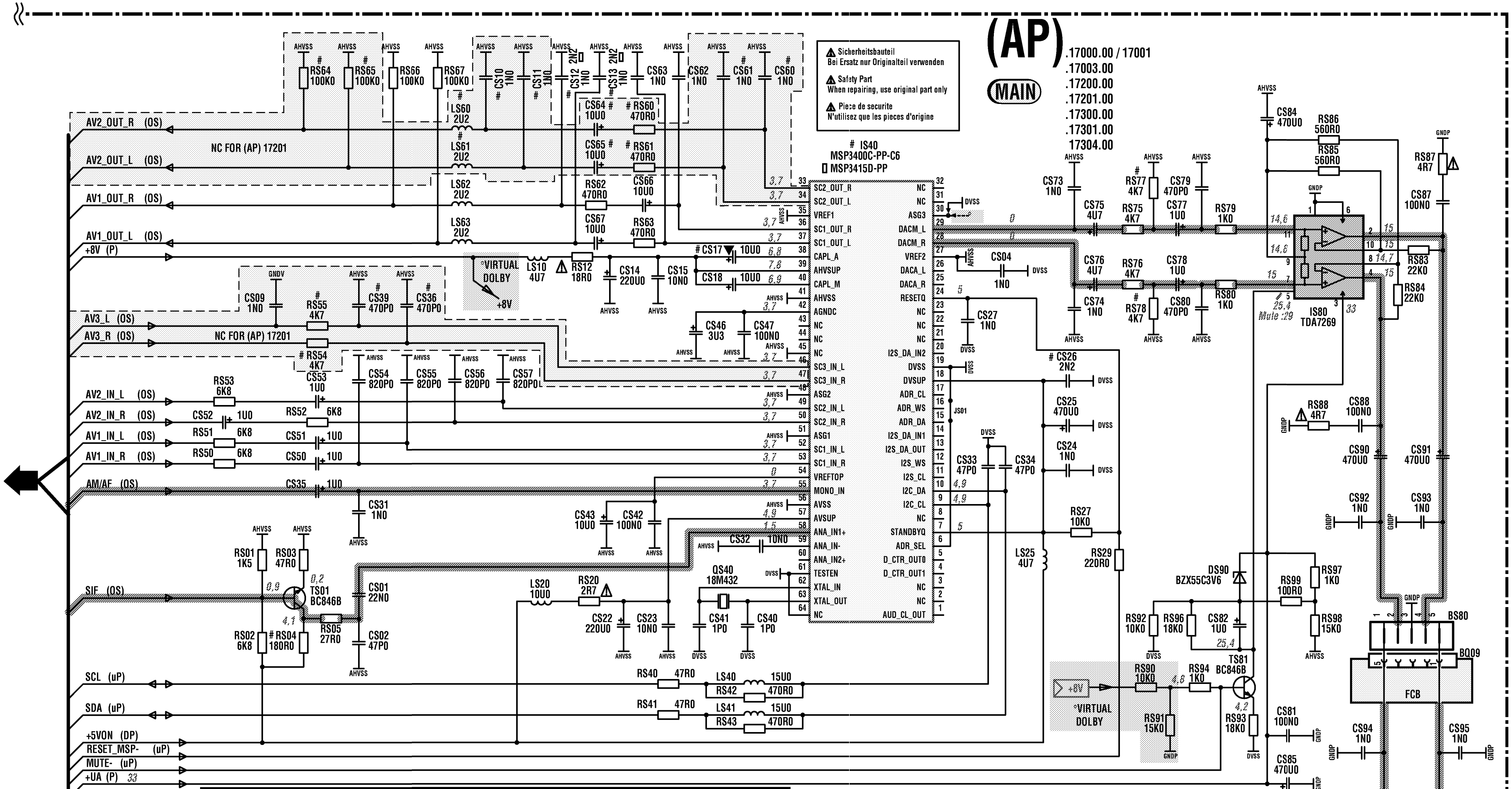
Sicherheitsbauteil
Bei Ersatz nur Originalteil verwenden
Safety Part
When repairing, use original part only
Piece de securite
N'utilisez que les pieces d'origine
* = see CT 17xxx partslist
NH01
CTT5010
IF
TI10
DTC144EK
4 = Secam
0 = Pal
0 = Secam
5 = Pal
FI01
40M4
39M5
FI02
31M9
FI10
QFWG3970M
FI20
OFWK9354M
FI30
77M8
76M
FI50
5M74
5M5
IV01
TDA8855H
QC01
4M433619
QC02
3M579545
TX15
BC546B
TI60
BC846B
TV10
BC846B
DV19
1N4148
DH04
1N4148
DH01
BZX55B33
DV09
LL4148
BX01
AV1
BX02
AV2
BX50
SDA
SCL
GND
CVBS1_OUT
CVBS1_IN
CHROMA_IN
CVBS2_IN
BV01
TO CRT BOARD
CRT
BX80
SUB AVL
ONLY SOME MODELS
AV_LINK
AV_LINK1
FB_SC
B_SC
G_SC
R_SC
FB_OSD
B_OSD
G_OSD
R_OSD
(DP) VGUARD
(DP) BCL
(DP) SAFETY
(P) +8V
+5VON
T = 20ms
T = 64µs
6Vpp-V
6Vpp-H
1,5Vpp-V
3,5Vpp-H
3,8Vpp-H
4Vpp-H
3,5Vpp-H
3,2Vpp-H
2Vpp-H
3,8Vpp-H
SCL
SDA
AVS2
AV2_IN_L
AV2_OUT_L
AV2_IN_R
AV2_OUT_R
AVS1
AV1_IN_L
AV1_OUT_L
AV1_IN_R
AV1_OUT_R
FB_SC
R_SC
G_SC
B_SC
AV1_CVBS_IN
AV1_CVBS_OUT
AV2/AV3_Y,CVBS
CHROMA_AV2/AV3
SIF_(A)
CHROMA_AV2/AV3
AV2/AV3_Y,CVBS
AV1_CVBS_OUT
AM/AF(A)
AV1_CVBS_IN
(DP) EHT
(DP) +V
(DP) -V
(DP) EW
(P) +8V
(P) LFB
(DP) HDRIVE
AV2_CVBS_OUT
(uP) CVBSTXT
(P) +8V
(uP) TRAP_INFO
(DP) +5VUP
(P) +33V

AMPLIFIER SCHEMATIC DIAGRAM - SCHEMA DE L'AMPLIFICATEUR - SCHALTBILD AUDIO-SIGNALVERABEITUNG - SCHEMA DELL' AMPLIFICATORE ESQUEMA DEL AMPLIFICADOR

(STEREO)

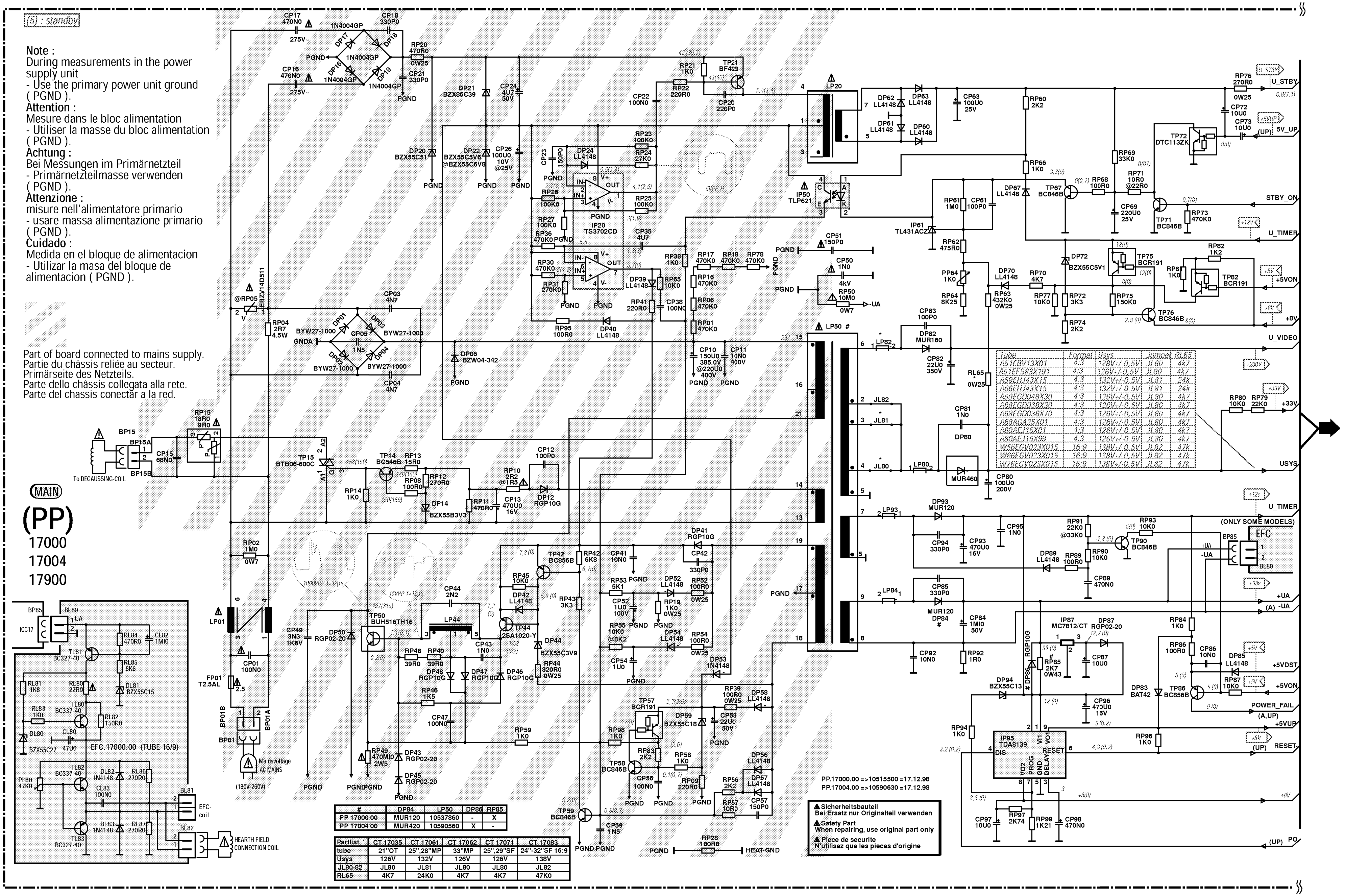

(AP)
MAIN
.17000.00 / 17001
.17003.00
.17200.00
.17201.00
.17300.00
.17301.00
17304.00
⚠ Sicherheitsbauteil
Bei Ersatz nur Originalteil verwenden
⚠ Safety Part
When repairing, use original part only
⚠ Piece de securite
N'utilisez que les pieces d'origine
# IS40
MSP3400C-PP-C6
MSP3415D-PP
IS80
TDA7269
AV2_OUT_R (OS)
AV2_OUT_L (OS)
AV1_OUT_R (OS)
AV1_OUT_L (OS)
+8V (P)
AV3_L (OS)
AV3_R (OS)
AV2_IN_L (OS)
AV2_IN_R (OS)
AV1_IN_L (OS)
AV1_IN_R (OS)
AM/AF (OS)
SIF (OS)
SCL (uP)
SDA (uP)
+5VON (DP)
RESET_MSP- (uP)
MUTE- (uP)
+UA (P) 33
-UA (P)
NC FOR (AP) 17201
°VIRTUAL DOLBY
+8V
SC2_OUT_R
SC2_OUT_L
VREF1
SC1_OUT_R
SC1_OUT_L
CAPL_A
AHVSUP
CAPL_M
AHVSS
AGNDC
NC
SC3_IN_L
SC3_IN_R
ASG2
SC2_IN_L
SC2_IN_R
ASG1
SC1_IN_L
SC1_IN_R
VREFTOP
MONO_IN
AVSS
AVSUP
ANA_IN1+
ANA_IN-
ANA_IN2+
TESTEN
XTAL_IN
XTAL_OUT
ASG3
DACM_L
DACM_R
VREF2
DACA_L
DACA_R
RESETQ
I2S_DA_IN2
DVSS
DVSUP
ADR_CL
ADR_WS
ADR_DA
I2S_DA_IN1
I2S_DA_OUT
I2S_WS
I2S_CL
I2C_DA
I2C_CL
STANDBYQ
ADR_SEL
D_CTR_OUT0
D_CTR_OUT1
AUD_CL_OUT
TS01 BC846B
TS81 BC846B
DS90 BZX55C3V6
QS40 18M432
LS10 4U7
LS20 10U0
LS25 4U7
RS12 18R0
RS20 2R7
RS87 4R7
RS88 4R7
Mute :29
FCB
BS80
BQ09
BS90
BS91
R
L
RS95 100K0 GND_HEATSINK
CS05 1N0 GND-HEATSINK
CS06 1N0 DVSS
CS07 1N0 DVSS
CS08 1N0 GNDV
CS59 4N7
°1MIO

▼: NC FOR (AP) 17201
▯ : SPECIFIC FOR (AP)17201

#		AP17000	AP17001	AP 17200	AP 17201	AP17003	AP17300	AP17301	AP17303
		ST	ST/NICAM	ST	ST/NICAM	ST/NICAM	ST	ST/NICAM	ST/NICAM
		2X10W	2X10W	2X5W	2X5W	2X10W	2X10W	2X10W	2X10W
		–	–	–	–	VIRTUAL DOLBY	–	–	VIRTUAL DOLBY
		–	–	–	–	–	STEP 3	STEP 3	STEP3
Pos	Name								
IS40	SOFT ICC17 TBD 00		X					X	
IS40	MSP3400C-PP-C8 MSP AM/FM	X					X		
IS40	MSP 3400C ICC17 00	X					X		
IS40	MSP3405D-PP MSP AM/FM LOW END			X					
IS40	MSP3451G MSP+VIRTUAL DOLBY					X	X		
IS40	MSP3415D-PP MSP AM/FM + NICAM				X				
IS40	MSP3410D-PP MSP AM/FM + NICAM		X					X	
CS10	1N0F +10% -10% 50.0V	X	X			X	X	X	X
CS11	1N0F +10% -10% 50.0V	X	X			X	X	X	X
CS12	1N0F +10% -10% 50.0V	X	X			X	X	X	X
CS12	2N2F +20% -20% 16.0V			X	X				
CS13	1N0F +10% -10% 50.0V	X	X			X	X	X	X
CS13	2N2F + 20% -20% 16.0V			X	X				
CS17	CE 10U0F +20% 63.0V	X				X	X	X	X
CS26	2N2F +5% -5% 50.0V NP0						X	X	X
CS26	2N2F +20% -20% 16.0V	X	X	X	X	X			
CS36	470P0F +10% -10% 50.0V	X	X			X	X	X	X
CS39	470P0F +10% -10% 50.0V	X	X			X	X	X	X
CS60	1N0F +10% -10% 50.0V	X	X			X	X	X	X
CS61	1N0F +10% -10% 50.0V	X	X			X	X	X	X
CS64	CE 10U0F +20% 63.0V	X	X			X	X	X	X
CS65	CE 10U0F +20% 63.0V	X	X			X	X	X	X

#		AP17000		AP 17200	AP 17201	AP17003	AP17300	AP17301	AP17303
		ST	ST/NICAM	ST	ST/NICAM	ST/NICAM	ST	ST/NICAM	ST/NICAM
		2X10W	2X10W	2X5W	2X5W	2X10W	2X10W	2X10W	2X10W
		–	–	–	–	VIRTUAL DOLBY	–	–	VIRTUAL DOLBY
		–	–	–	–	–	STEP 3	STEP 3	STEP3
Pos	Name								
JS98	0 OHM +0% 125MIOW	X	X	X	X		X	X	
LS60	LF-SMD 2U2H +10%	X	X			X	X	X	X
LS61	LF-SMD 2U2H +10%	X	X			X	X	X	X
RS04	180R0 OHM +5%	X	X	X	X	X			
RS04	180R0 OHM +5%						X	X	X
RS54	4K7 OHM +5%	X	X			X	X	X	X
RS55	4K7 OHM +5%	X	X			X	X	X	X
RS60	470R0 OHM +5%	X	X			X	X	X	X
RS61	470R0 OHM +5%	X	X			X	X	X	X
RS64	100K0 OHM +5%	X	X			X	X	X	X
RS65	100K0 OHM +5%	X	X			X	X	X	X
RS77	2K7 OHM +5%			X	X				
RS77	4K7 OHM +5%	X	X			X	X	X	X
RS78	2K7 OHM +5%			X	X				
RS78	4K7 OHM +5%	X	X			X	X	X	X

POWER SUPPLY - ALIMENTATION - NETZTEIL - ALIMENTAZIONE - ALIMENTACIÓN


(5) : standby
(MAIN)
(PP)
17000
17004
17900
U_STBY
5V_UP
STBY_ON
U_TIMER
+5VON
+8V
U_VIDEO
+33V
USYS
(ONLY SOME MODELS)
EFC
+UA
-UA
+5VDST
POWER_FAIL
+5VUP
RESET
PO
LP20
LP50 #
LP01
LP44
IP20 TS3702CD
IP50 TLP621
IP61 TL431ACZ
IP87 MC7812/CT
IP95 TDA8139
TP21 BF423
TP50 BUH516TH16
TP15 BTB06-600C
BP15
To DEGAUSSING-COIL
BP01
Mainsvoltage AC MAINS (180V-260V)
FP01 T2.5AL
PGND
HEAT-GND
EFC.17000.00 (TUBE 16/9)
EFC-coil
HEARTH FIELD CONNECTION COIL
ICC17
BL80
BL81
BL82

Note :
During measurements in the power supply unit
- Use the primary power unit ground (PGND).

Attention :
Mesure dans le bloc alimentation
- Utiliser la masse du bloc alimentation (PGND).

Achtung :
Bei Messungen im Primärnetzteil
- Primärnetzteilmasse verwenden (PGND).

Attenzione :
misure nell'alimentatore primario
- usare massa alimentazione primario (PGND).

Cuidado :
Medida en el bloque de alimentacion
- Utilizar la masa del bloque de alimentacion (PGND).

Part of board connected to mains supply.
Partie du châssis reliée au secteur.
Primärseite des Netzteils.
Parte dello châssis collegata alla rete.
Parte del chassis conectar a la red.

Tube	Format	Usys	Jumper	RL65
A51EBV13X01	4:3	128V+/-0,5V	JL80	4k7
A51EFS83X191	4:3	126V+/-0,5V	JL80	4k7
A59EHJ43X15	4:3	132V+/-0,5V	JL81	24k
A66EHJ43X15	4:3	132V+/-0,5V	JL81	24k
A59EGD048X30	4:3	126V+/-0,5V	JL80	4k7
A68EGD038X30	4:3	126V+/-0,5V	JL80	4k7
A68EGD038X70	4:3	126V+/-0,5V	JL80	4k7
A68AGA25X01	4:3	126V+/-0,5V	JL80	4k7
A80AEJ15X01	4:3	126V+/-0,5V	JL80	4k7
A80AEJ15X99	4:3	126V+/-0,5V	JL80	4k7
W56EGV023X015	16:9	138V+/-0,5V	JL82	47k
W66EGV023X015	16:9	138V+/-0,5V	JL82	47k
W76EGV023X015	16:9	138V+/-0,5V	JL82	47k

#	DP84	LP50	DP86	RP85
PP 17000 00	MUR120	10537860	-	X
PP 17004 00	MUR420	10590560	X	-

Partlist *	CT 17035	CT 17061	CT 17062	CT 17071	CT 17083
tube	21"OT	25",28"MP	33"MP	25",29"SF	24"-32"SF 16:9
Usys	126V	132V	126V	126V	138V
JL80-82	JL80	JL81	JL80	JL80	JL82
RL65	4K7	24K0	4K7	4K7	47K0

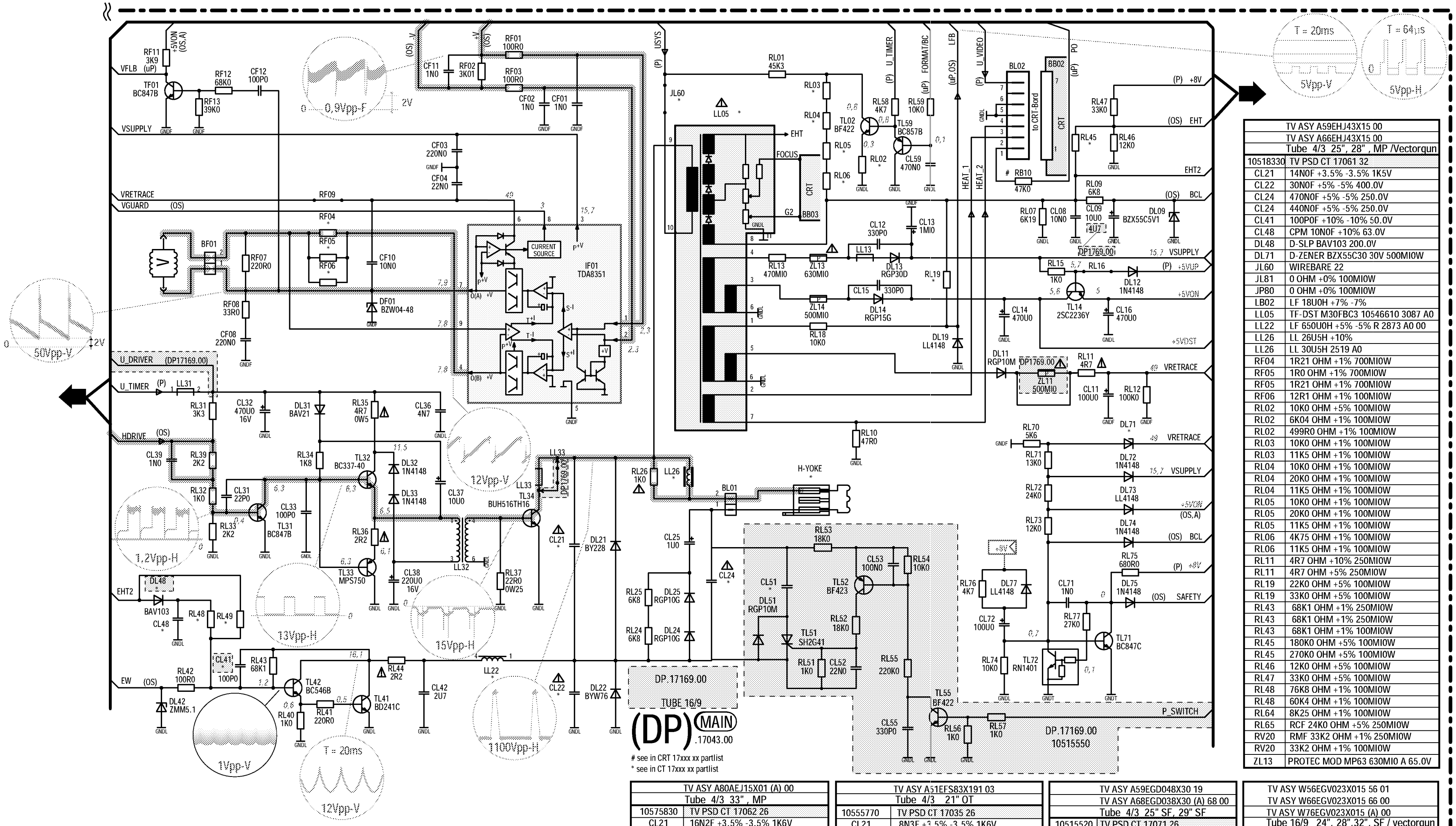
PP.17000.00 =>10515500 =17.12.98
PP.17004.00 =>10590630 =17.12.98

⚠ Sicherheitsbauteil
Bei Ersatz nur Originalteil verwenden

⚠ Safety Part
When repairing, use original part only

⚠ Piece de securite
N'utilisez que les pieces d'origine

SCANNING - BALAYAGE - ABLENKUNG - BARRIDO - SCANSIONE


VFLB (uP)
VSUPPLY
VRETRACE
VGUARD (OS)
U_DRIVER (DP17169.00)
U_TIMER (P)
HDRIVE (OS)
EHT2
EW (OS)
IF01 TDA8351
CURRENT SOURCE
TF01 BC847B
TL31 BC847B
TL32 BC337-40
TL33 MPS750
TL34 BUH516TH16
TL41 BD241C
TL42 BC546B
TL51 SH2G41
TL52 BF423
TL55 BF422
TL02 BF422
TL59 BC857B
TL14 2SC2236Y
TL71 BC847C
TL72 RN1401
LL05
H-YOKE
BL01
BL02
BB02
to CRT-Bord
EHT
FOCUS
CRT
G2
BB03
(P) +8V
(OS) EHT
EHT2
(OS) BCL
VSUPPLY
(P) +5VUP
+5VON
+5VDST
VRETRACE
(OS,A)
(OS) SAFETY
P_SWITCH
USYS
U_TIMER
FORMAT/BC
LFB
U_VIDEO
PO
HEAT_1
HEAT_2
DP.17169.00
TUBE 16/9
DP.17169.00 10515550
0,9Vpp-F
50Vpp-V
1,2Vpp-H
12Vpp-V
13Vpp-H
15Vpp-H
1Vpp-V
T = 20ms
12Vpp-V
1100Vpp-H
T = 20ms
5Vpp-V
T = 64µs
5Vpp-H

(DP) MAIN .17043.00

see in CRT 17xxx xx partlist

* see in CT 17xxx xx partlist

⚠ Indicates critical safety components, and identical components should be used for replacement. Only then can the operational safety be garanteed.

Le remplacement des éléments de sécurité (repérés avec le symbole ⚠) par des composants non homologués selon la Norme CEI 65 entraine la non-conformité de l'appareil.
Dans ce cas, la responsabilité du fabricant n'est plus engagée.

Wenn Sicherheitsteile (mit dem Symbol ⚠ gekennzeichnet) durch nicht normgerechte Teile ersetzt werden, erlischt die Haftung des Herstellers.

La sostituzione degli elementi di sicurezza (contrassegnati con il segno ⚠) con componenti non omologati secondo la norma CEI 65 comporta la non conformitá dell'apparecchio.
In tal caso é "esclusa la responsabilità" del costruttore.

La subtitución de elementos de seguridad (marcados con el simbolo ⚠) por componentes no homologados segun la norma CEI 65, provoca la no conformidad del aparato.
En ese caso, el fabricante cesa de ser responsable.

	TV ASY A59EHJ43X15 00 TV ASY A66EHJ43X15 00 Tube 4/3 25", 28" , MP /Vectorgun
10518330	TV PSD CT 17061 32
CL21	14N0F +3.5% -3.5% 1K5V
CL22	30N0F +5% -5% 400.0V
CL24	470N0F +5% -5% 250.0V
CL24	440N0F +5% -5% 250.0V
CL41	100P0F +10% -10% 50.0V
CL48	CPM 10N0F +10% 63.0V
DL48	D-SLP BAV103 200.0V
DL71	D-ZENER BZX55C30 30V 500MI0W
JL60	WIREBARE 22
JL81	0 OHM +0% 100MI0W
JP80	0 OHM +0% 100MI0W
LB02	LF 18U0H +7% -7%
LL05	TF-DST M30FBC3 10546610 3087 A0
LL22	LF 650U0H +5% -5% R 2873 A0 00
LL26	LL 26U5H +10%
LL26	LL 30U5H 2519 A0
RF04	1R21 OHM +1% 700MI0W
RF05	1R0 OHM +1% 700MI0W
RF05	1R21 OHM +1% 700MI0W
RF06	12R1 OHM +1% 100MI0W
RL02	10K0 OHM +5% 100MI0W
RL02	6K04 OHM +1% 100MI0W
RL02	499R0 OHM +1% 100MI0W
RL03	10K0 OHM +1% 100MI0W
RL03	11K5 OHM +1% 100MI0W
RL04	10K0 OHM +1% 100MI0W
RL04	20K0 OHM +1% 100MI0W
RL04	11K5 OHM +1% 100MI0W
RL05	10K0 OHM +1% 100MI0W
RL05	20K0 OHM +1% 100MI0W
RL05	11K5 OHM +1% 100MI0W
RL06	4K75 OHM +1% 100MI0W
RL06	11K5 OHM +1% 100MI0W
RL11	4R7 OHM +10% 250MI0W
RL11	4R7 OHM +5% 250MI0W
RL19	22K0 OHM +5% 100MI0W
RL19	33K0 OHM +5% 100MI0W
RL43	68K1 OHM +1% 250MI0W
RL43	68K1 OHM +1% 250MI0W
RL43	68K1 OHM +1% 100MI0W
RL45	180K0 OHM +5% 100MI0W
RL45	270K0 OHM +5% 100MI0W
RL46	12K0 OHM +5% 100MI0W
RL47	33K0 OHM +5% 100MI0W
RL48	76K8 OHM +1% 100MI0W
RL48	60K4 OHM +1% 100MI0W
RL64	8K25 OHM +1% 100MI0W
RL65	RCF 24K0 OHM +5% 250MI0W
RV20	RMF 33K2 OHM +1% 250MI0W
RV20	33K2 OHM +1% 100MI0W
ZL13	PROTEC MOD MP63 630MI0 A 65.0V

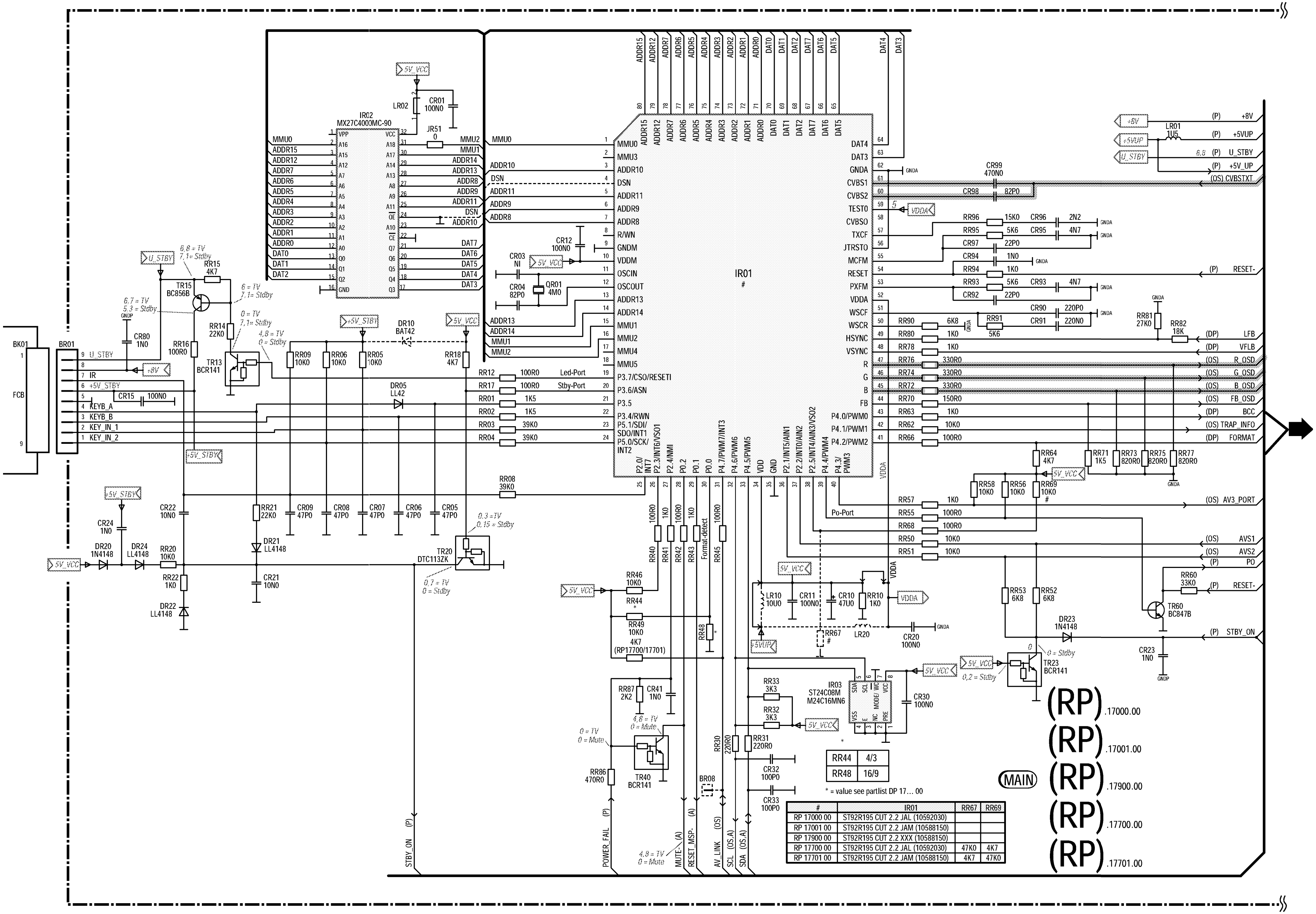
	TV ASY A80AEJ15X01 (A) 00 Tube 4/3 33" , MP
10575830	TV PSD CT 17062 26
CL21	16N2F +3.5% -3.5% 1K6V
CL22	30N0F +5% -5% 400.0V
CL24	560N0F +5% -5% 250.0V
CL41	100P0F +10% -10% 50.0V
CL48	10N0F +10% 63.0V
DL48	D-SLP BAV103 200.0V
DL71	D-ZENER BZX55C30 30V 500MI0W
JL60	WIREBARE 22
JL80	0 OHM +0% 100MI0W
LB02	LF 32U0H +4% -4%
LL05	TF-DST TDS29 TBD 11
LL22	LF 650U0H +5% -5% R 2873 A0 00
LL26	LL 26U5H +10%
RF05	1R21 OHM +1% 700MI0W
RF06	10R0 OHM +1% 100MI0W
RL02	6K04 OHM +1% 100MI0W
RL03	4K75 OHM +1% 100MI0W
RL04	4K75 OHM +1% 100MI0W
RL05	4K75 OHM +1% 100MI0W
RL06	6K81 OHM +1% 100MI0W
RL19	13K0 OHM +5% 100MI0W
RL45	150K0 OHM +5% 100MI0W
RL48	76K8 OHM +1% 100MI0W
RL49	560K0 OHM +5% 100MI0W
RL65	RCF 4K7 OHM +5% 250MI0W
RV20	RMF 23K7 OHM +1% 250MI0W

	TV ASY A51EFS83X191 03 Tube 4/3 21" OT
10555770	TV PSD CT 17035 26
CL21	8N3F +3.5% -3.5% 1K6V
CL22	33N0F +5% -5% 1K0V
CL24	440N0F +5% -5% 250.0V
CL41	1N0F +10% -10% 50.0V
DL71	D-ZENER BZX55C24 24V 500MI0W
JL60	WIREBARE 22
JL80	0 OHM +0% 100MI0W
LB02	LF 18U0H +7% -7%
LL05	TF-DST M30FBC3 10555640 3087 A0
LL22	LF 650U0H +5% -5% R 2873 A0 00
LL26	LL 85U0H 2519 A0
RF05	1R5 OHM +1% 700MI0W
RF06	10R0 OHM +1% 100MI0W
RL02	6K04 OHM +1% 100MI0W
RL03	10K0 OHM +1% 100MI0W
RL04	10K0 OHM +1% 100MI0W
RL05	10K0 OHM +1% 100MI0W
RL06	3K32 OHM +1% 100MI0W
RL45	110K0 OHM +5% 100MI0W
RL49	60K4 OHM +1% 100MI0W
RL65	4K7 OHM +5% 250MI0W
RV20	23K7 OHM +1% 250MI0W

	TV ASY A59EGD048X30 19 TV ASY A68EGD038X30 (A) 68 00 Tube 4/3 25" SF, 29" SF
10515520	TV PSD CT 17071 26
CL21	16N2F +3.5% -3.5% 1K6V
CL22	30N0F +5% -5% 400.0V
CL24	510N0F +5% -5% 250.0V
CL41	100P0F +10% -10% 50.0V
CL48	10N0F +10% 63.0V
DL48	D-SLP BAV103 200.0V
DL71	D-ZENER BZX55C30 30V 500MI0W
JL60	WIREBARE 22
JL80	0 OHM +0% 100MI0W
LB02	LF 32U0H +4% -4%
LL05	TF-DST TDS29 TBD 13
LL22	LF 650U0H +5% -5%
LL26	LL 26U5H +10%
RF05	RMF 1R0 OHM +1% 700MI0W
RL02	6K8 OHM +5% 100MI0W
RL03	4K75 OHM +1% 100MI0W
RL04	4K75 OHM +1% 100MI0W
RL05	4K75 OHM +1% 100MI0W
RL06	4K75 OHM +1% 100MI0W
RL19	15K0 OHM +5% 100MI0W
RL45	180K0 OHM +5% 100MI0W
RL48	100K0 OHM +5% 100MI0W
RL49	300K0 OHM +5% 100MI0W
RL65	4K7 OHM +5% 250MI0W
RV20	33K2 OHM +1% 250MI0W

	TV ASY W56EGV023X015 56 01 TV ASY W66EGV023X015 66 00 TV ASY W76EGV023X015 (A) 00 Tube 16/9 24", 28",32", SF / vectorgun
10515530	TV PSD CT 17083 38
CL21	15N5F +3.5% -3.5% 1K6V
CL22	27N0F +5% -5% 400.0V
CL24	440N0F +5% -5% 250.0V
CL41	100P0F +10% -10% 50.0V
CL48	100N0F +5% 63.0V
CL51	290N0F +5% -5% 250.0V
DL48	D-SLP BAV103 200.0V
DL71	D-ZENER BZX55C24 24V 500MI0W
JL60	WIREBARE 22
JL82	0 OHM +0% 100MI0W
LB02	LF 32U0H +4% -4%
LL05	TF-DST TDS29 15314460 10
LL22	LF 650U0H +5% -5%
LL26	LL 30U5H 2519 A0
RF05	1R21 OHM +1% 700MI0W
RL02	4K99 OHM +1% 100MI0W
RL03	6K49 OHM +1% 100MI0W
RL04	6K49 OHM +1% 100MI0W
RL05	6K49 OHM +1% 100MI0W
RL06	2K37 OHM +1% 100MI0W
RL19	13K0 OHM +5% 100MI0W
RL45	390K0 OHM +5% 100MI0W
RL48	220K0 OHM +5% 100MI0W
RL49	180K0 OHM +5% 100MI0W
RL65	47K0 OHM +5% 250MI0W
RV20	100K0 OHM +1% 250MI0W

CONTROL MICROPROCESSOR - MICROPROCESSEUR DE COMMANDE - MIKROPROZESSOR - MICROPROCESSORE DEI COMANDI - MICROPROCESADOR DE LOS MANDOS



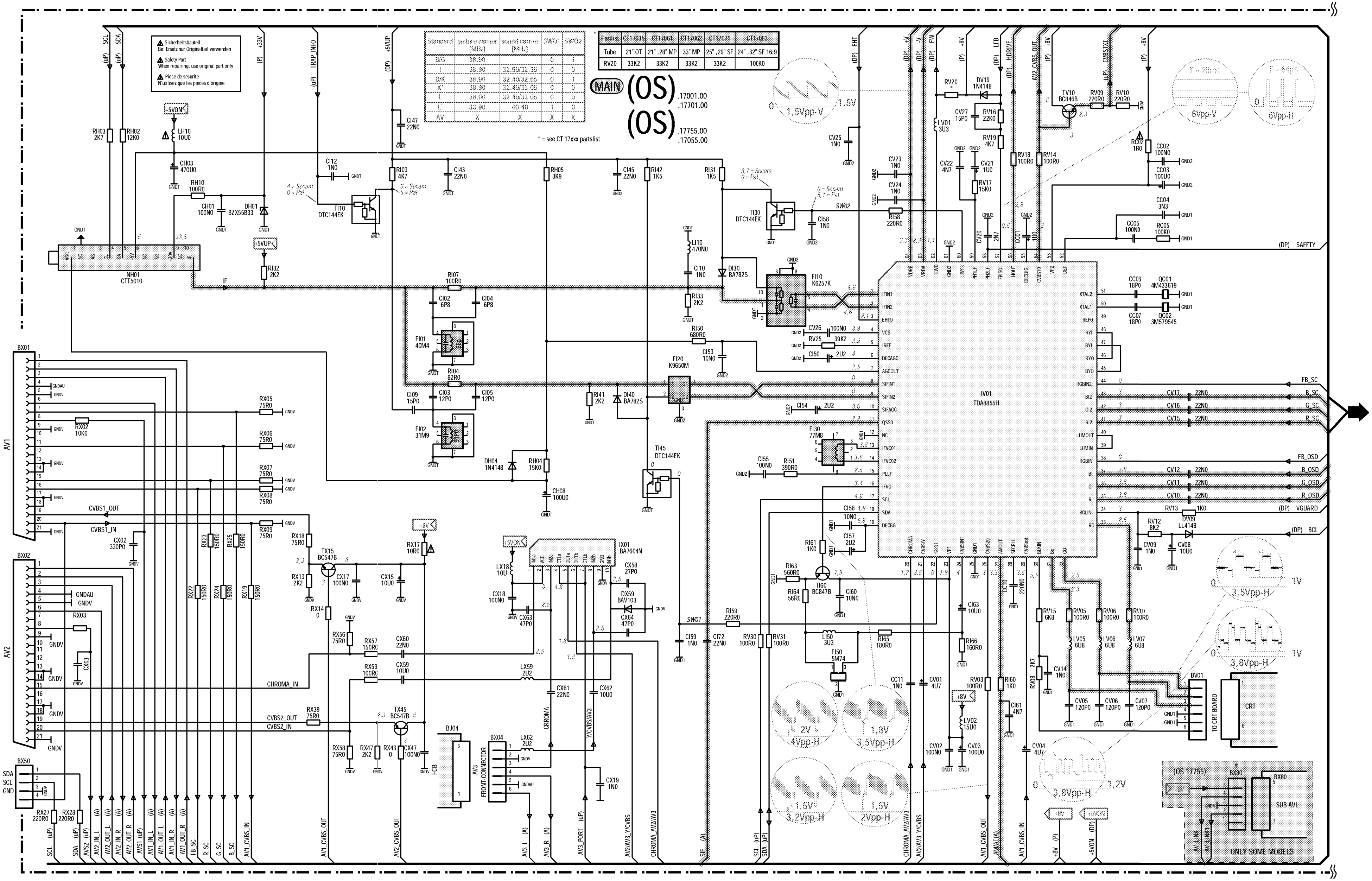
IR01
IRC2
MX27C4000MC-90
IR03
ST24C08M
M24C16MN6
BK01
BR01
FCB
QR01
4M0
TR15
BC856B
TR13
BCR141
TR20
DTC113ZK
TR40
BCR141
TR23
BCR141
TR60
BC847B
LR01
1U5
LR10
10U0
LR20
DR10
BAT42
DR05
LL42
DR20
1N4148
DR21
LL4148
DR22
LL4148
DR23
1N4148
DR24
LL4148
BR08
5V_VCC
U_STBY
+5V_STBY
+8V
+5VUP
VDDA
(P) +8V
(P) +5VUP
(P) U_STBY
(P) +5V_UP
(OS) CVBSTXT
(P) RESET-
(DP) LFB
(DP) VFLB
(OS) R_OSD
(OS) G_OSD
(OS) B_OSD
(OS) FB_OSD
(DP) BCC
(OS) TRAP_INFO
(DP) FORMAT
(OS) AV3_PORT
(OS) AVS1
(OS) AVS2
(P) PO
(P) STBY_ON
STBY_ON (P)
POWER_FAIL (P)
MUTE- (A)
RESET_MSP- (A)
AV_LINK (OS)
SCL (OS,A)
SDA (OS,A)
Led-Port
Stby-Port
Po-Port
Format-detect
(RP).17000.00
(RP).17001.00
MAIN
(RP).17900.00
(RP).17700.00
(RP).17701.00

RR44	4/3
RR48	16/9

* = value see partlist DP 17… 00

#	IR01	RR67	RR69
RP 17000 00	ST92R195 CUT 2.2 JAL (10592030)		
RP 17001 00	ST92R195 CUT 2.2 JAM (10588150)		
RP 17900 00	ST92R195 CUT 2.2 XXX (10588150)		
RP 17700 00	ST92R195 CUT 2.2 JAL (10592030)	47K0	4K7
RP 17701 00	ST92R195 CUT 2.2 JAM (10588150)	4K7	47K0

RF/FI/ SCART INTERFACE/VIDEO SIGNAL PROCESSING -HF/FI INTERFACE PERITELEVISION/TRAITEMENT LUMINANCE CHROMINANCE - HF/ZF/ SCART INTERFACE/VIDEO SIGNALVERARBEITUNG - RF/FI /PRESA PERITEL/ELABORAZIONE VIDEO - RF/FI /EUROCONECTOR / TRATAMENTO VIDEO



(uP) SCL
(uP) SDA
(P) +33V
(uP) TRAP_INFO
(DP) +5VUP
+5VON
+5VUP
LH10 10U0
CH03 470U0
RH03 2K7
RH02 12K0
RH10 100R0
CH01 100N0
DH01 BZX55B33
NH01 CTT5010
RI32 2K2
IF
CI12 1N0
TI10 DTC144EK
RI03 4K7
CI47 22N0
CI43 22N0
RH05 3K9
CI45 22N0
RI42 1K5
RI31 1K5
4 = Secam 0 = Pal
0 = Secam 5 = Pal
3,7 = Secam 0 = Pal
0 = Secam 5,1 = Pal
SW02
SW01
TI30 DTC144EK
CI58 1N0
RI58 220R0
LI10 470N0
CI10 1N0
DI30 BA782S
FI10 K6257K
RI33 2K2
RI50 680R0
CI53 10N0
FI20 K9650M
RI07 100R0
CI02 6P8
CI04 6P8
FI01 40M4
RI04 82R0
CI09 15P0
CI03 12P0
CI05 12P0
FI02 31M9
DH04 1N4148
RH04 15K0
CH08 100U0
RI41 2K2
DI40 BA782S
TI45 DTC144EK
CV26 100N0
RV25 39K2
CI50 2U2
CI54 2U2
FI30 77M8
CI55 100N0
RI51 390R0
CI56 10N0
CI57 2U2
RI61 1K0
RI63 560R0
RI64 56R0
TI60 BC847B
CI60 10N0
RI59 220R0
CI59 1N0
CI72 22N0
RV30 100R0
RV31 100R0
LI50 3U3
FI50 5M74
RI65 180R0
CI63 10U0
RI66 160R0
IV01 TDA8855H
IFIN1
IFIN2
EHTO
VCS
IREF
DECAGC
AGCOUT
SIFIN1
SIFIN2
SIFAGC
QSSO
NC
IFVCO1
IFVCO2
PLLIF
IFVO
SCL
SDA
DECBG
XTAL2
XTAL1
REFO
RYI
BYI
RYO
BYO
RGBIN2
BI2
GI2
RI2
LUMOUT
LUMIN
RGBIN
BI
GI
RI
BCLIN
RO
(DP) EHT
(DP) +V
(DP) -V
(DP) EW
(P) +8V
(DP) LFB
(DP) HDRIVE
AV2_CVBS_OUT
(P) +8V
(uP) CVBSTXT
(P) +8V
RV20 *
DV19 1N4148
LV01 3U3
CV27 15P0
RV16 22K0
RV19 4K7
CV25 1N0
CV23 1N0
CV24 1N0
CV22 4N7
CV21 1U0
RV17 15K0
RV18 100R0
RV14 100R0
CV20 2N7
CC01 1N0
TV10 BC846B
RV09 220R0
RV10 220R0
RC02 1R0
CC02 100N0
CC03 100U0
CC04 3N3
CC05 100N0
RC05 100K0
(DP) SAFETY
CC06 18P0
QC01 4M433619
CC07 18P0
QC02 3M579545
FB_SC
B_SC
G_SC
R_SC
CV17 22N0
CV16 22N0
CV15 22N0
FB_OSD
B_OSD
G_OSD
R_OSD
CV12 22N0
CV11 22N0
CV10 22N0
RV13 1K0
(DP) VGUARD
RV12 8K2
DV09 LL4148
(DP) BCL
CV09 1N0
CV08 10U0
1,5Vpp-V
1,5V
T = 20ms
6Vpp-V
T = 64µs
6Vpp-H
3,5Vpp-H
1V
3,8Vpp-H
RV15 6K8
RV05 100R0
RV06 100R0
RV07 100R0
LV05 6U8
LV06 6U8
LV07 6U8
CV14 1N0
RV08 2K7
CV05 120P0
CV06 120P0
CV07 120P0
BV01
TO CRT BOARD
CRT
CC11 1N0
CV01 4U7
RV03 100R0
RI60 1K0
CI61 4N7
LV02 15U0
CV02 100N0
CV03 100U0
CV04 4U7
2V 4Vpp-H
1,8V 3,5Vpp-H
1,5V 3,2Vpp-H
1,5V 2Vpp-H
3,8Vpp-H
1,2V
(OS 17755)
BX80
SUB AVL
ONLY SOME MODELS
AV_LINK
AV_LINK1
BX01
AV1
BX02
AV2
BX50
SDA
SCL
GND
RX05 75R0
RX06 75R0
RX07 75R0
RX08 75R0
RX09 75R0
RX02 10K0
CVBS1_OUT
CVBS1_IN
CX02 330P0
RX03
CX03
GNDAU
GNDV
CHROMA_IN
CVBS2_OUT
CVBS2_IN
RX39 75R0
RX22 150R0
RX23 150R0
RX24 150R0
RX25 150R0
RX19 150R0
RX18 75R0
TX15 BC547B
RX13 2K2
CX17 100N0
CX15 10U0
RX17 10R0
RX14 0
RX56 75R0
RX57 150R0
CX60 22N0
RX59 100R0
CX59 10U0
TX45 BC547B
RX58 75R0
RX47 2K2
RX43 0
CX47 100N0
BJ04
FCB
BX04
AV3 FRONT-CONNECTOR
LX62 2U2
CX19 1N0
IX01 BA7604N
LX18 10U
CX18 100N0
CX63 47P0
CX58 27P0
DX59 BAV103
CX64 47P0
LX59 2U2
CX61 22N0
CX62 10U0
CHROMA
Y/CVBS/AV3
RX27 220R0
RX28 220R0
SCL (uP)
SDA (uP)
AV2_IN_L (A)
AV2_OUT_L (A)
AV2_IN_R (A)
AV2_OUT_R (A)
AVS1 (uP)
AV1_IN_L (A)
AV1_OUT_L (A)
AV1_IN_R (A)
AV1_OUT_R (A)
FB_SC
R_SC
G_SC
B_SC
AV1_CVBS_IN
AV1_CVBS_OUT
AV2_CVBS_OUT
AV3_L (A)
AV3_R (A)
AV3_PORT (uP)
AV2/AV3_Y/CVBS
CHROMA_AV2/AV3
SIF (A)
SCL (uP)
SDA (uP)
CHROMA_AV2/AV3
AV2/AV3_Y/CVBS
AV1_CVBS_OUT
AM/AF(A)
AV1_CVBS_IN
+8V (P)
+5VON (P)
MAIN
(OS) .17001.00 .17701.00
(OS) .17755.00 .17055.00

⚠ Sicherheitsbauteil
Bei Ersatz nur Originalteil verwenden

⚠ Safety Part
When repairing, use original part only

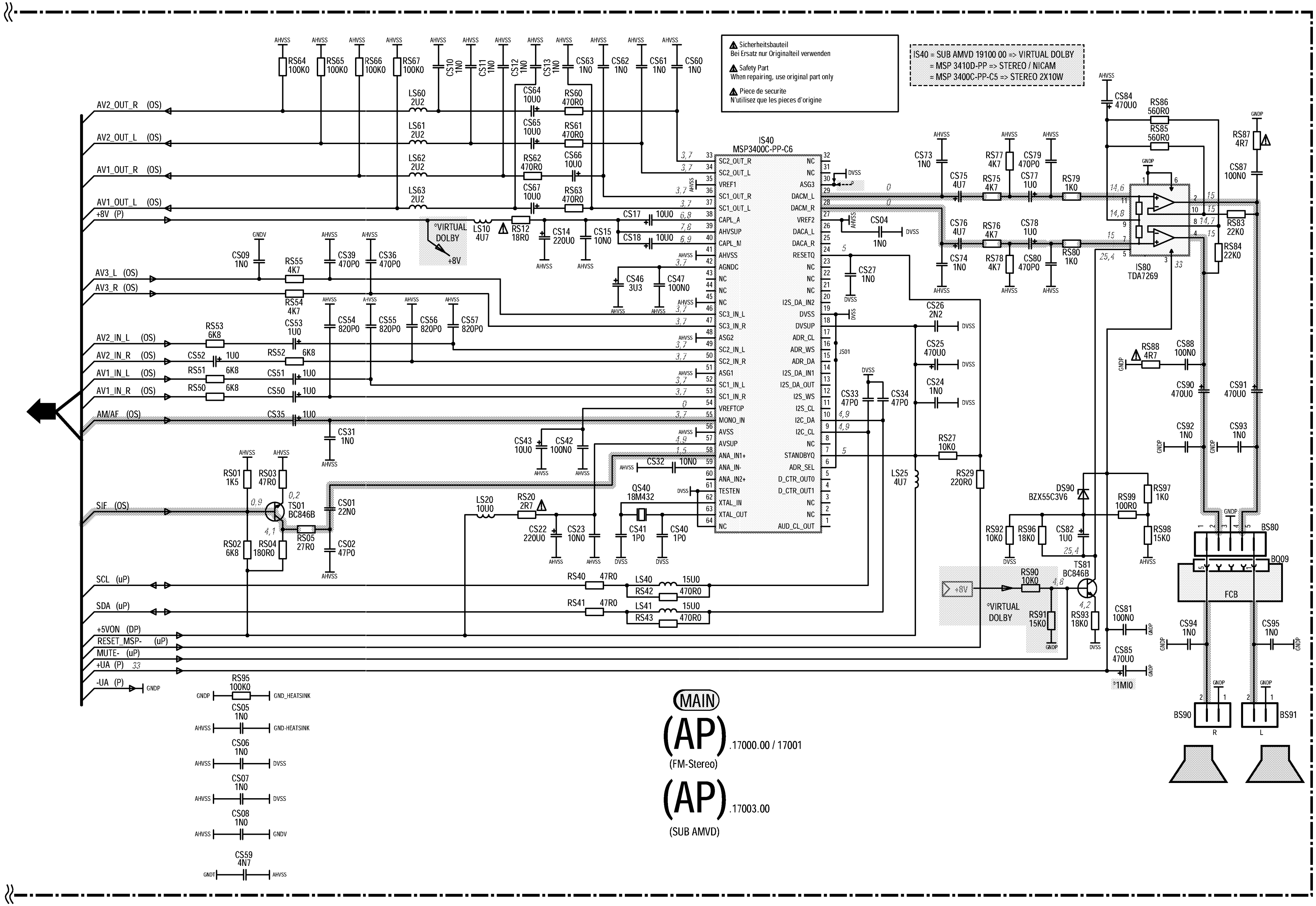
⚠ Piece de securite
N'utilisez que les pieces d'origine

Standard	picture carrier [MHz]	sound carrier [MHz]	SW01	SW02
B/G	38.90		0	1
I	38.90	32.90/32.35	0	0
D/K	38.90	32.40/32.65	0	1
K'	38.90	32.40/33.05	0	0
L	38.90	32.40/33.05	0	0
L'	33.90	40.40	1	0
AV	X	X	X	X

* Partlist	CT17035	CT17061	CT17062	CT17071	CT17083
Tube	21" OT	21" ,28" MP	33" MP	25" ,29" SF	24" ,32" SF 16:9
RV20	33K2	33K2	33K2	33K2	100K0

* = see CT 17xxx partslist

AMPLIFIER SCHEMATIC DIAGRAM - SCHEMA DE L'AMPLIFICATEUR - SCHALTBILD AUDIO-SIGNALVERABEITUNG - SCHEMA DELL' AMPLIFICATORE ESQUEMA DEL AMPLIFICADOR (STEREO)



⚠ Sicherheitsbauteil
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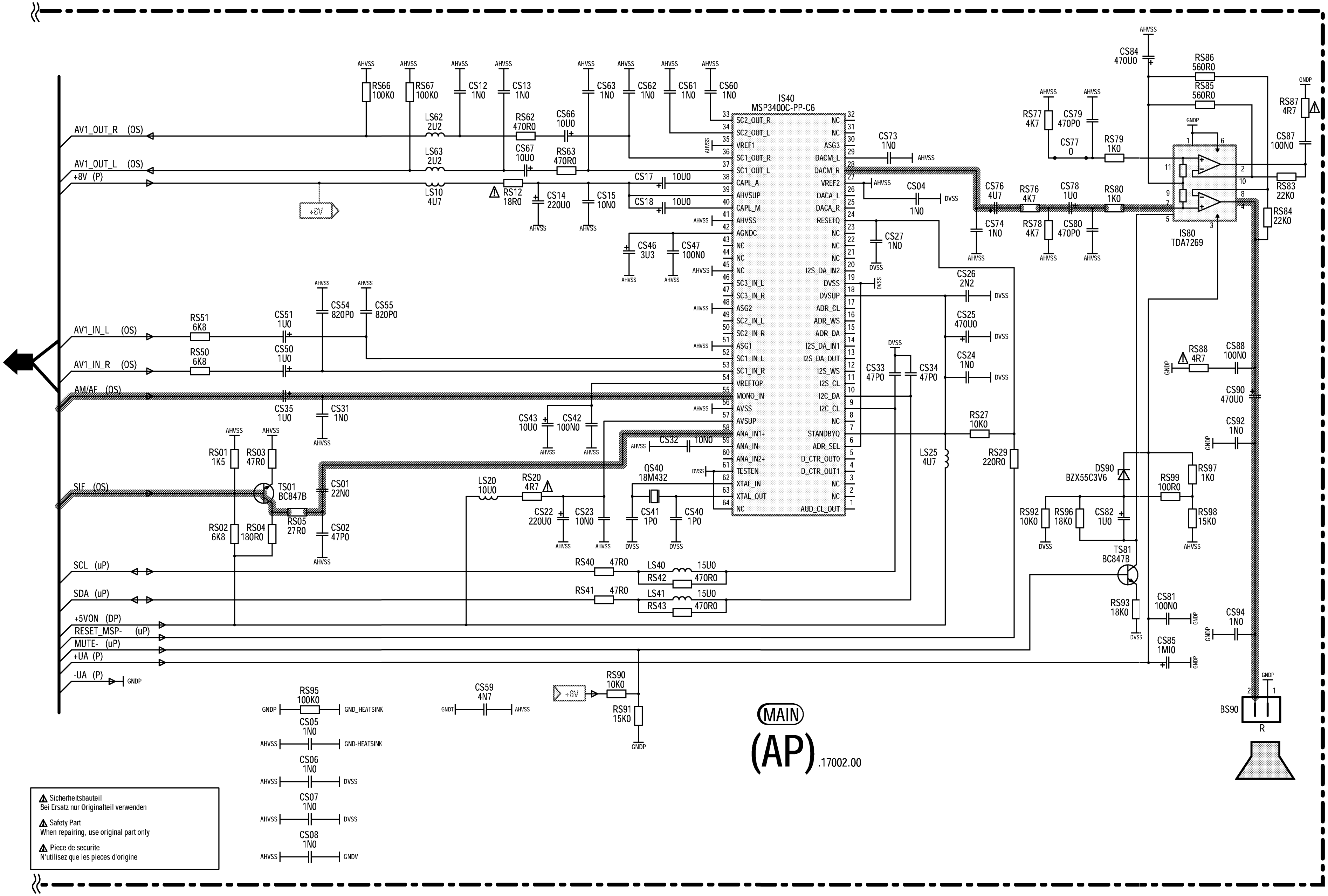
⚠ Piece de securite
N'utilisez que les pieces d'origine

IS40 = SUB AMVD 19100 00 => VIRTUAL DOLBY
= MSP 3410D-PP => STEREO / NICAM
= MSP 3400C-PP-C5 => STEREO 2X10W

AV2_OUT_R (OS)
AV2_OUT_L (OS)
AV1_OUT_R (OS)
AV1_OUT_L (OS)
+8V (P)
AV3_L (OS)
AV3_R (OS)
AV2_IN_L (OS)
AV2_IN_R (OS)
AV1_IN_L (OS)
AV1_IN_R (OS)
AM/AF (OS)
SIF (OS)
SCL (uP)
SDA (uP)
+5VON (DP)
RESET_MSP- (uP)
MUTE- (uP)
+UA (P) 33
-UA (P)
AHVSS
GNDV
GNDP
DVSS
RS64 100K0
RS65 100K0
RS66 100K0
RS67 100K0
CS10 1N0
CS11 1N0
CS12 1N0
CS13 1N0
CS63 1N0
CS62 1N0
CS61 1N0
CS60 1N0
LS60 2U2
LS61 2U2
LS62 2U2
LS63 2U2
CS64 10U0
CS65 10U0
CS66 10U0
CS67 10U0
RS60 470R0
RS61 470R0
RS62 470R0
RS63 470R0
°VIRTUAL DOLBY
+8V
LS10 4U7
RS12 18R0
CS14 220U0
CS15 10N0
CS17 10U0
CS18 10U0
CS09 1N0
RS55 4K7
RS54 4K7
CS39 470P0
CS36 470P0
CS46 3U3
CS47 100N0
RS53 6K8
CS53 1U0
CS54 820P0
CS55 820P0
CS56 820P0
CS57 820P0
CS52 1U0
RS52 6K8
RS51 6K8
CS51 1U0
RS50 6K8
CS50 1U0
CS35 1U0
CS31 1N0
CS43 10U0
CS42 100N0
CS32 10N0
RS01 1K5
RS03 47R0
TS01 BC846B
0,9
0,2
4,1
RS05 27R0
CS01 22N0
CS02 47P0
RS02 6K8
RS04 180R0
LS20 10U0
RS20 2R7
CS22 220U0
CS23 10N0
QS40 18M432
CS41 1P0
CS40 1P0
RS40 47R0
RS41 47R0
LS40 15U0
LS41 15U0
RS42 470R0
RS43 470R0
IS40 MSP3400C-PP-C6
33 SC2_OUT_R
34 SC2_OUT_L
35 VREF1
36 SC1_OUT_R
37 SC1_OUT_L
38 CAPL_A
39 AHVSUP
40 CAPL_M
41 AHVSS
42 AGNDC
43 NC
44 NC
45 NC
46 SC3_IN_L
47 SC3_IN_R
48 ASG2
49 SC2_IN_L
50 SC2_IN_R
51 ASG1
52 SC1_IN_L
53 SC1_IN_R
54 VREFTOP
55 MONO_IN
56 AVSS
57 AVSUP
58 ANA_IN1+
59 ANA_IN-
60 ANA_IN2+
61 TESTEN
62 XTAL_IN
63 XTAL_OUT
64 NC
32 NC
31 NC
30 ASG3
29 DACM_L
28 DACM_R
27 VREF2
26 DACA_L
25 DACA_R
24 RESETQ
23 NC
22 NC
21 NC
20 I2S_DA_IN2
19 DVSS
18 DVSUP
17 ADR_CL
16 ADR_WS
15 ADR_DA
14 I2S_DA_IN1
13 I2S_DA_OUT
12 I2S_WS
11 I2S_CL
10 I2C_DA
9 I2C_CL
8 NC
7 STANDBYQ
6 ADR_SEL
5 D_CTR_OUT0
4 D_CTR_OUT1
3 NC
2 NC
1 AUD_CL_OUT
3,7
7,8
6,8
6,9
1,5
4,9
JS01
CS04 1N0
CS27 1N0
CS26 2N2
CS25 470U0
CS24 1N0
CS33 47P0
CS34 47P0
RS27 10K0
RS29 220R0
LS25 4U7
CS73 1N0
RS77 4K7
CS79 470P0
CS75 4U7
RS75 4K7
CS77 1U0
RS79 1K0
CS76 4U7
RS76 4K7
CS78 1U0
CS74 1N0
RS78 4K7
CS80 470P0
RS80 1K0
14,6
14,8
14,7
15
25,4
33
IS80 TDA7269
CS84 470U0
RS86 560R0
RS85 560R0
RS87 4R7
CS87 100N0
RS83 22K0
RS84 22K0
RS88 4R7
CS88 100N0
CS90 470U0
CS91 470U0
CS92 1N0
CS93 1N0
DS90 BZX55C3V6
RS99 100R0
RS97 1K0
RS92 10K0
RS96 18K0
CS82 1U0
RS98 15K0
TS81 BC846B
RS90 10K0
4,8
4,2
RS91 15K0
RS93 18K0
CS81 100N0
CS85 470U0
°1MI0
BS80
BQ09
FCB
CS94 1N0
CS95 1N0
BS90
BS91
R
L
RS95 100K0
GND_HEATSINK
CS05 1N0
CS06 1N0
CS07 1N0
CS08 1N0
CS59 4N7
GNDT
MAIN
(AP).17000.00 / 17001
(FM-Stereo)
(AP).17003.00
(SUB AMVD)

AMPLIFIER SCHEMATIC DIAGRAM - SCHEMA DE L'AMPLIFICATEUR - SCHALTBILD AUDIO-SIGNALVERABEITUNG - SCHEMA DELL' AMPLIFICATORE - ESQUEMA DEL AMPLIFICADOR

(MONO)


AV1_OUT_R (OS)
AV1_OUT_L (OS)
+8V (P)
AV1_IN_L (OS)
AV1_IN_R (OS)
AM/AF (OS)
SIF (OS)
SCL (uP)
SDA (uP)
+5VON (DP)
RESET_MSP- (uP)
MUTE- (uP)
+UA (P)
-UA (P)
GNDP
AHVSS
DVSS
RS66 100K0
RS67 100K0
CS12 1N0
CS13 1N0
LS62 2U2
LS63 2U2
LS10 4U7
RS62 470R0
CS66 10U0
CS67 10U0
RS63 470R0
RS12 18R0
CS14 220U0
CS15 10N0
CS63 1N0
CS62 1N0
CS61 1N0
CS60 1N0
CS17 10U0
CS18 10U0
CS46 3U3
CS47 100N0
IS40
MSP3400C-PP-C6
SC2_OUT_R
SC2_OUT_L
VREF1
SC1_OUT_R
SC1_OUT_L
CAPL_A
AHVSUP
CAPL_M
AHVSS
AGNDC
NC
SC3_IN_L
SC3_IN_R
ASG2
SC2_IN_L
SC2_IN_R
ASG1
SC1_IN_L
SC1_IN_R
VREFTOP
MONO_IN
AVSS
AVSUP
ANA_IN1+
ANA_IN-
ANA_IN2+
TESTEN
XTAL_IN
XTAL_OUT
ASG3
DACM_L
DACM_R
VREF2
DACA_L
DACA_R
RESETQ
I2S_DA_IN2
DVSS
DVSUP
ADR_CL
ADR_WS
ADR_DA
I2S_DA_IN1
I2S_DA_OUT
I2S_WS
I2S_CL
I2C_DA
I2C_CL
STANDBYQ
ADR_SEL
D_CTR_OUT0
D_CTR_OUT1
AUD_CL_OUT
CS73 1N0
CS04 1N0
CS27 1N0
CS26 2N2
CS25 470U0
CS24 1N0
CS33 47P0
CS34 47P0
RS27 10K0
RS29 220R0
LS25 4U7
RS51 6K8
RS50 6K8
CS51 1U0
CS50 1U0
CS54 820P0
CS55 820P0
CS35 1U0
CS31 1N0
CS43 10U0
CS42 100N0
CS32 10N0
QS40 18M432
CS41 1P0
CS40 1P0
RS01 1K5
RS03 47R0
TS01 BC847B
RS05 27R0
CS01 22N0
CS02 47P0
RS02 6K8
RS04 180R0
LS20 10U0
RS20 4R7
CS22 220U0
CS23 10N0
RS40 47R0
RS41 47R0
LS40 15U0
LS41 15U0
RS42 470R0
RS43 470R0
RS90 10K0
RS91 15K0
+8V
CS59 4N7
GNDT
RS95 100K0
GND_HEATSINK
CS05 1N0
GND-HEATSINK
CS06 1N0
CS07 1N0
CS08 1N0
GNDV
CS84 470U0
RS86 560R0
RS85 560R0
RS87 4R7
CS87 100N0
RS77 4K7
CS79 470P0
CS77 0
RS79 1K0
CS76 4U7
RS76 4K7
CS78 1U0
RS80 1K0
CS74 1N0
RS78 4K7
CS80 470P0
IS80
TDA7269
RS83 22K0
RS84 22K0
RS88 4R7
CS88 100N0
CS90 470U0
CS92 1N0
DS90 BZX55C3V6
RS99 100R0
RS97 1K0
RS98 15K0
RS92 10K0
RS96 18K0
CS82 1U0
TS81 BC847B
RS93 18K0
CS81 100N0
CS85 1MI0
CS94 1N0
BS90
R
MAIN
(AP) .17002.00

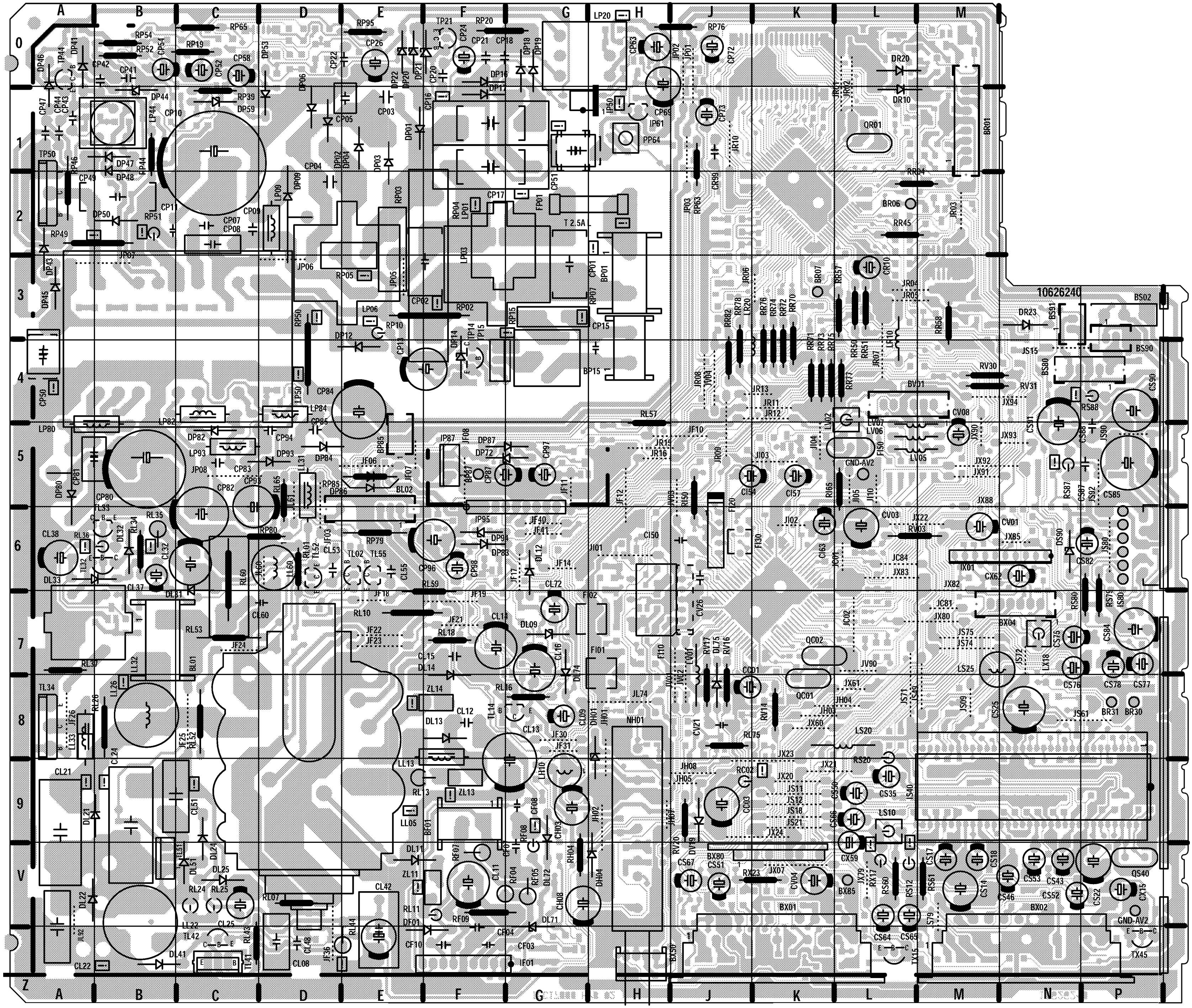
⚠ Sicherheitsbauteil
Bei Ersatz nur Originalteil verwenden

⚠ Safety Part
When repairing, use original part only

⚠ Piece de securite
N'utilisez que les pieces d'origine

MAIN BOARD - PLATINE PRINCIPALE - CHASSIS GRUNDPLATTE - PIASTRA PRINCIPALE - PLATINA PRINCIPAL

COMPONENT SIDE - COTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI - LADO COMPONENTES


A
B
C
D
E
F
G
H
J
K
L
M
N
P
0
1
2
3
4
5
6
7
8
9
V
Z
10626240
T 2.5A
RP65
RP54
RP52
RP19
CP54
CP58
DP53
RP95
CP26
TP21
RP20
CP24
CP21
CP18
DP18
DP19
LP20
CP63
RP76
CP72
DR20
DR10
BR01
QR01
CP10
CP05
CP03
DP01
CP04
CP17
CP51
FP01
BP01
CP01
RR04
BR06
RR45
CR10
RR58
DR23
BS91
BS02
BS90
BS80
CS90
RV30
RV31
BV01
CV08
JX94
JX93
JX92
JX91
CS85
CS81
JX88
CV01
JX85
CV03
JX22
RV03
JC84
JX83
IX01
CX62
JX82
JC81
JX80
BX04
JS75
JS74
CS79
LX18
CS84
CS76
CS78
CS77
LS25
CS25
JS61
BR31
BR30
CI54
CI57
CI63
CI50
CI26
QC02
QC01
JV90
CC01
RV17
DL75
RV16
RV14
RL75
JX61
JH04
JH03
JX60
LS20
RS20
JX23
JX20
JX21
RC02
CC03
JS11
JS12
JS18
JS21
CS35
CS56
CS66
LS10
JX24
JX07
CV04
BX80
CS67
CS51
RX23
BX01
BX85
CX59
RX17
RS60
RS12
CS17
CS64
CS65
CS14
CS18
CS46
CS53
CS43
CS52
BX02
CS22
QS40
CX15
GND-AV2
TX45
TX15
NH01
JL74
CL38
DL33
CL37
DL31
RL36
RL35
DL32
RL34
CL32
CL60
RL53
RL37
LL32
TL34
CL21
CL22
DL21
DL22
DL24
DL25
RL24
RL25
TL32
TL42
CL25
DL41
RL43
TL41
CL48
CL08
JF36
RL44
CL42
RL11
DF01
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CF04
CF03
IF01
RF09
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CH08
DH04
RH04
CH03
JH02
LH10
CL13
DL13
LL13
RL13
ZL13
ZL14
LL05
BF01
DL11
ZL11
RF07
CL11
RF04
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RF06
CF08
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DV10
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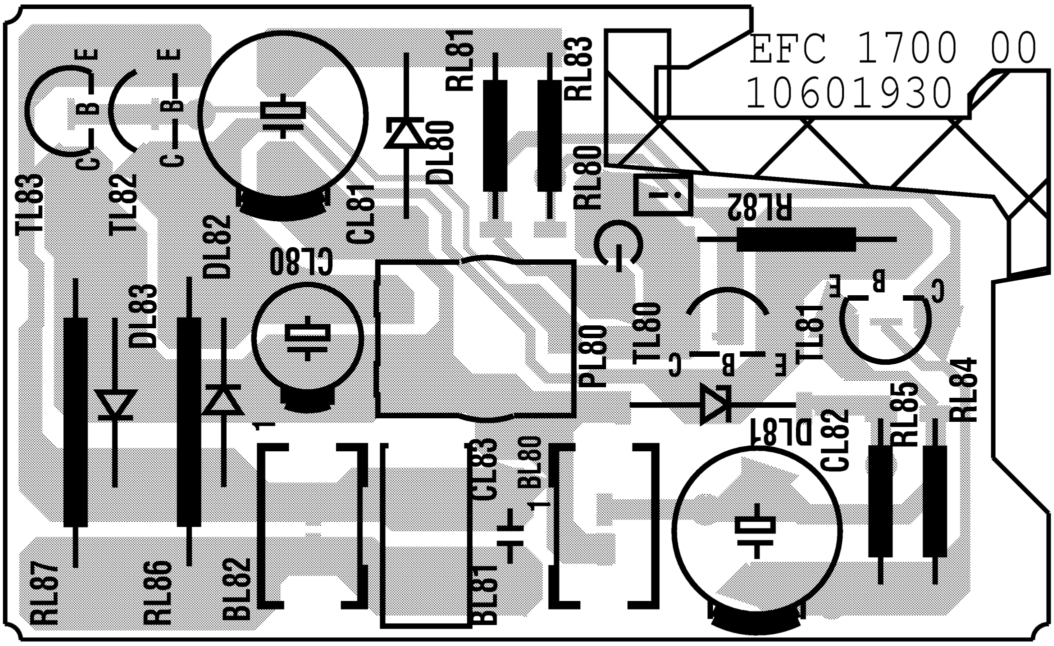
S79
JR03
CP99
JP03
RP63
JR10
JP02
JP01
JP50
CP69
JP61
PP64
CP73
JR01
JR02

EFC 17000
EARTH-FIELD CORRECTION BOARD

COMPONENT SIDE - CÖTE COMPOSANTS - BESTÜCKUNGSSEITE -LATO COMPONENTI
LADO COMPONENTES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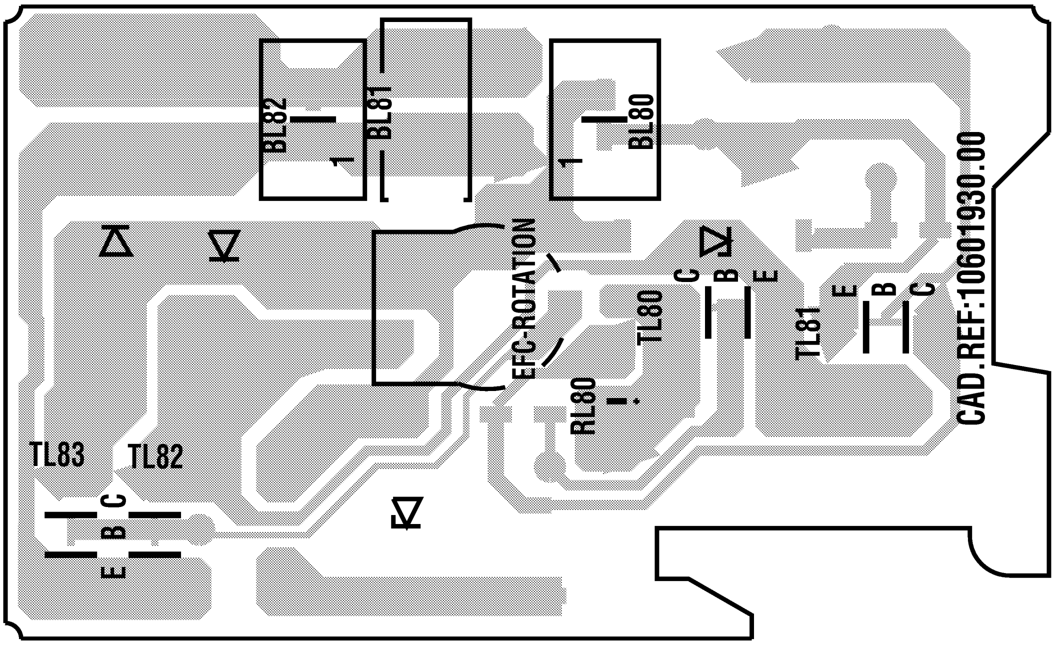
SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS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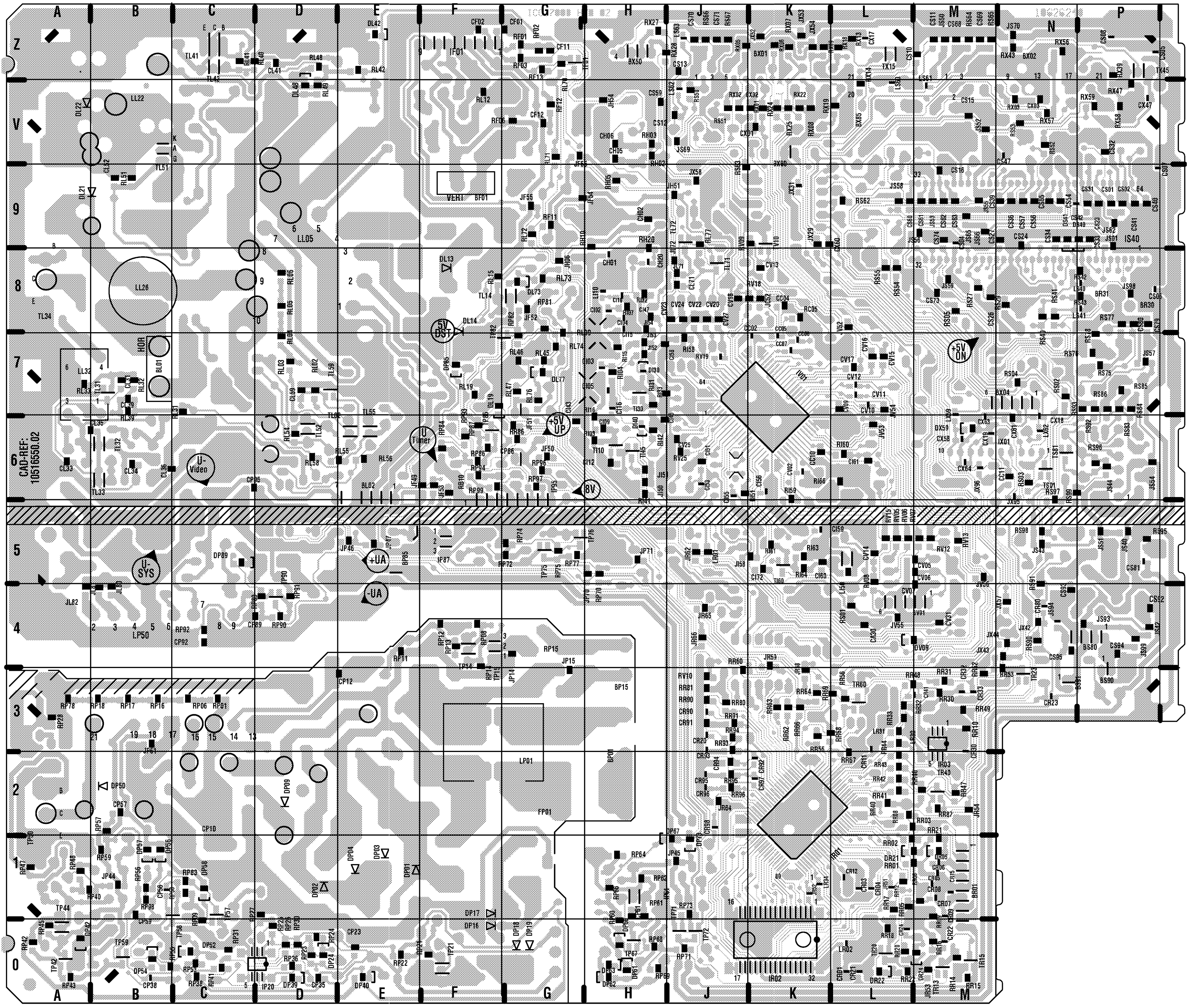
SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS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HOR
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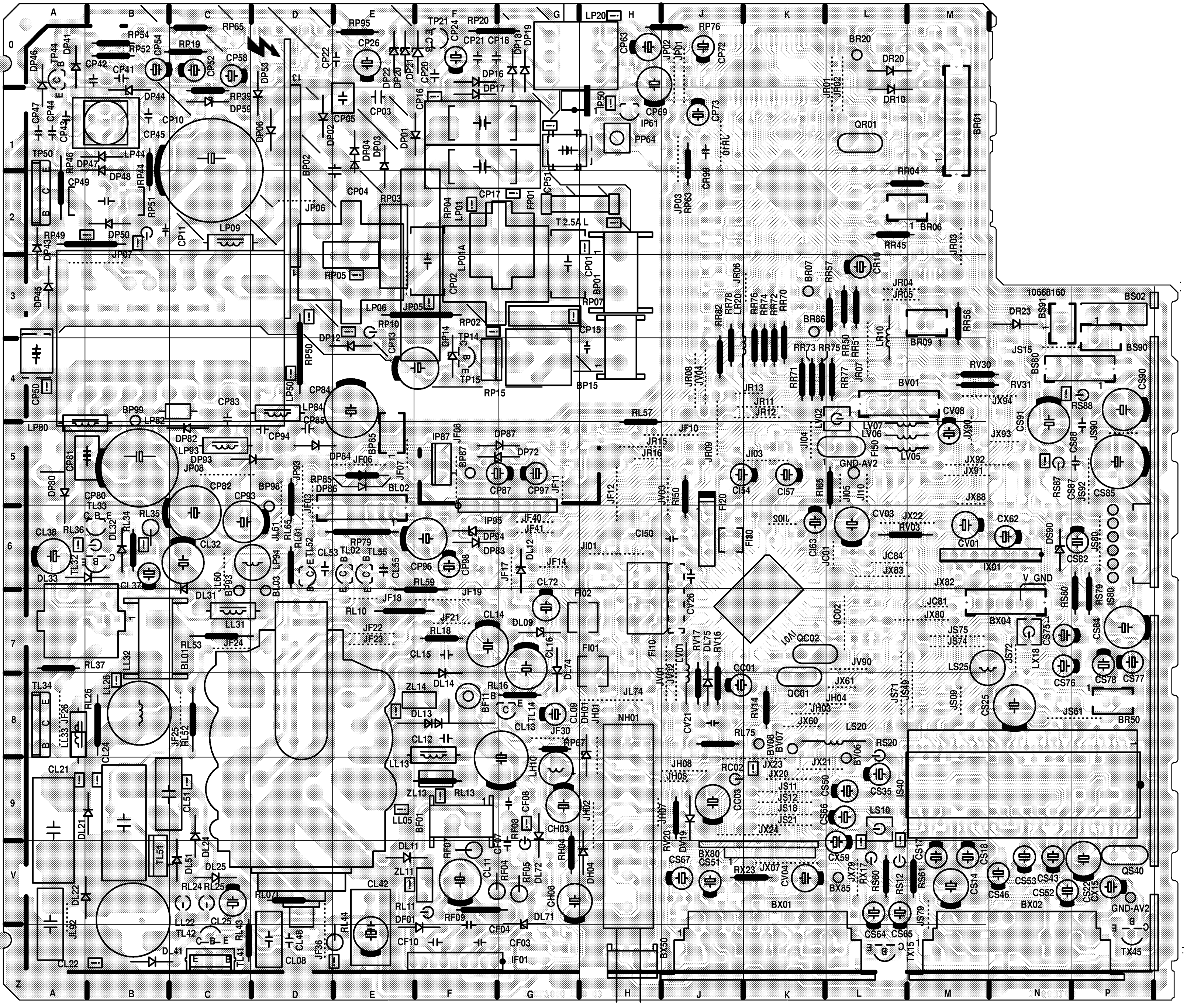
+5V ON
U-SYS
+UA
-UA
U-Video
U-Timer
+5V UP
8V
5V DST

MAIN BOARD - PLATINE PRINCIPALE - CHASSIS GRUNDPLATTE - PIASTRA PRINCIPALE - PLATINA PRINCIPAL

COMPONENT SIDE - COTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI - LADO COMPONENTES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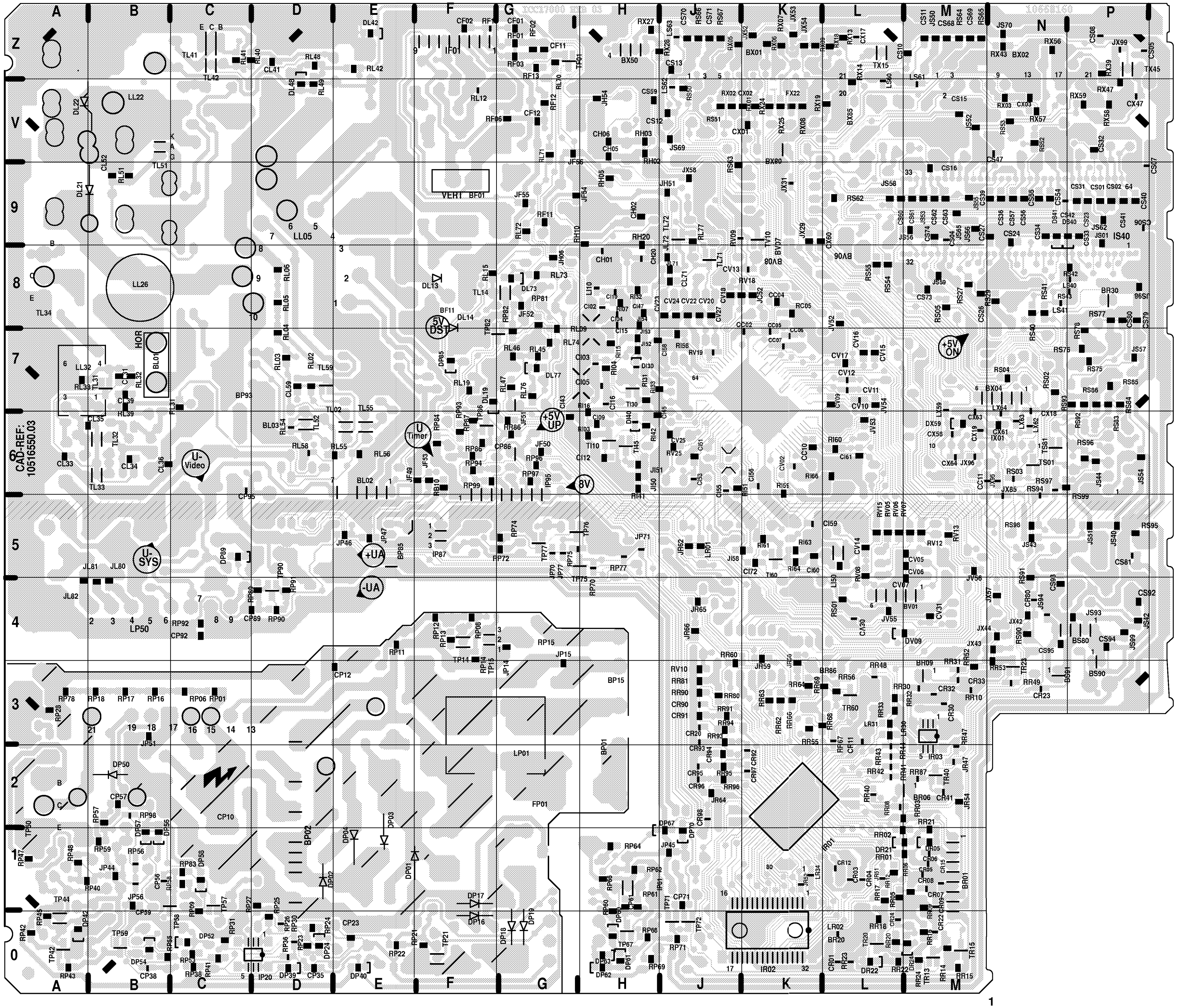
SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS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-UA
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LP01
IR02
IR03

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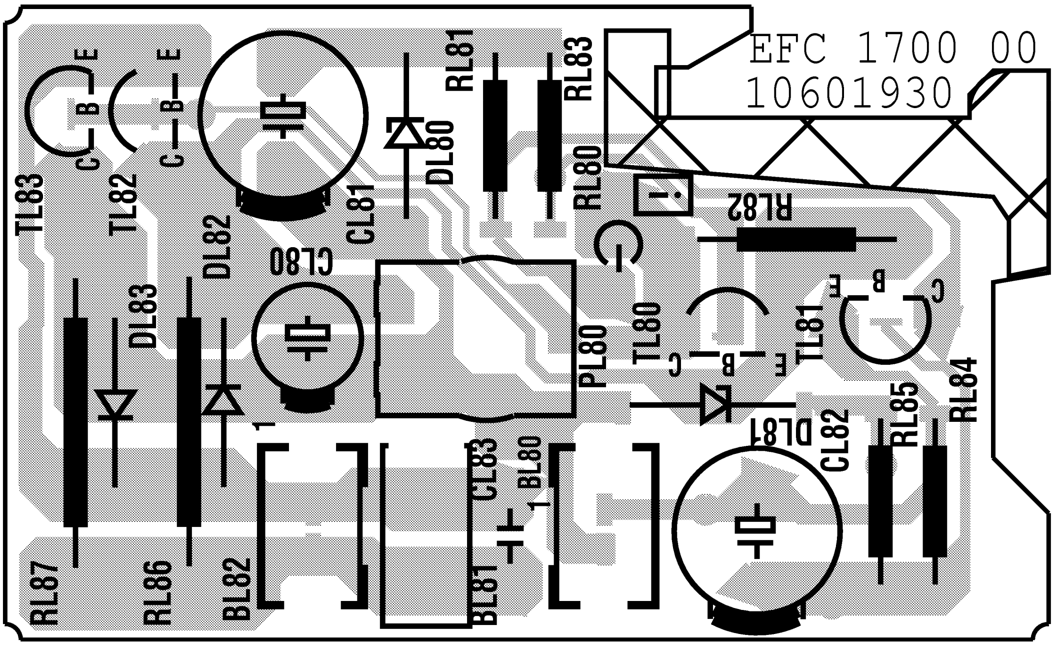
EFC 17000
EARTH-FIELD CORRECTION BOARD

COMPONENT SIDE - CÖTE COMPOSANTS - BESTÜCKUNGSSEITE -LATO COMPONENTI
LADO COMPONENTES



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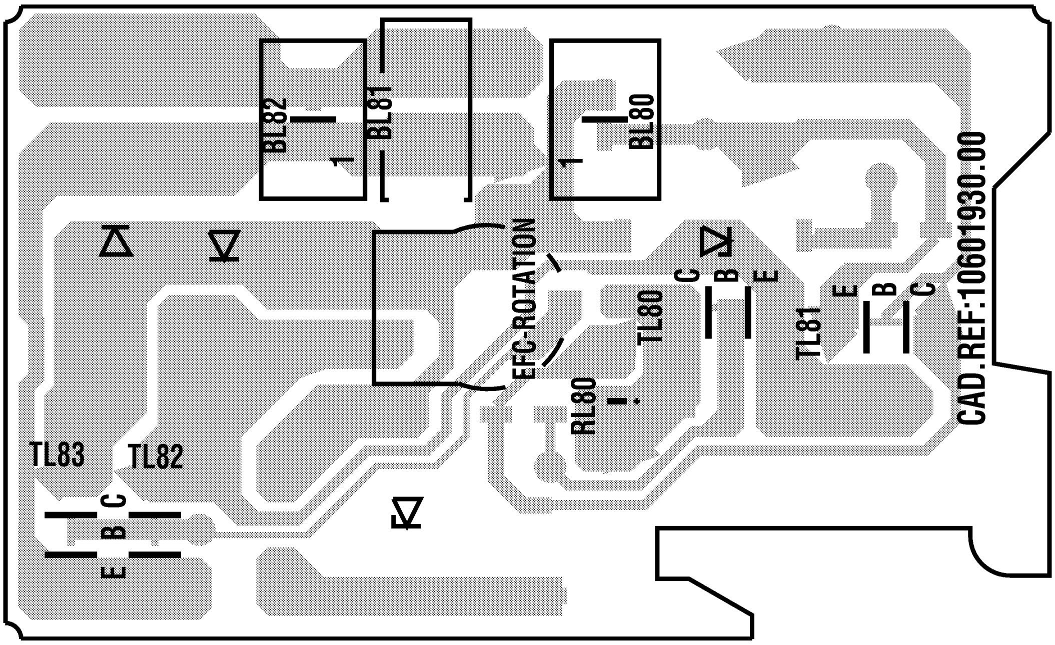
SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS



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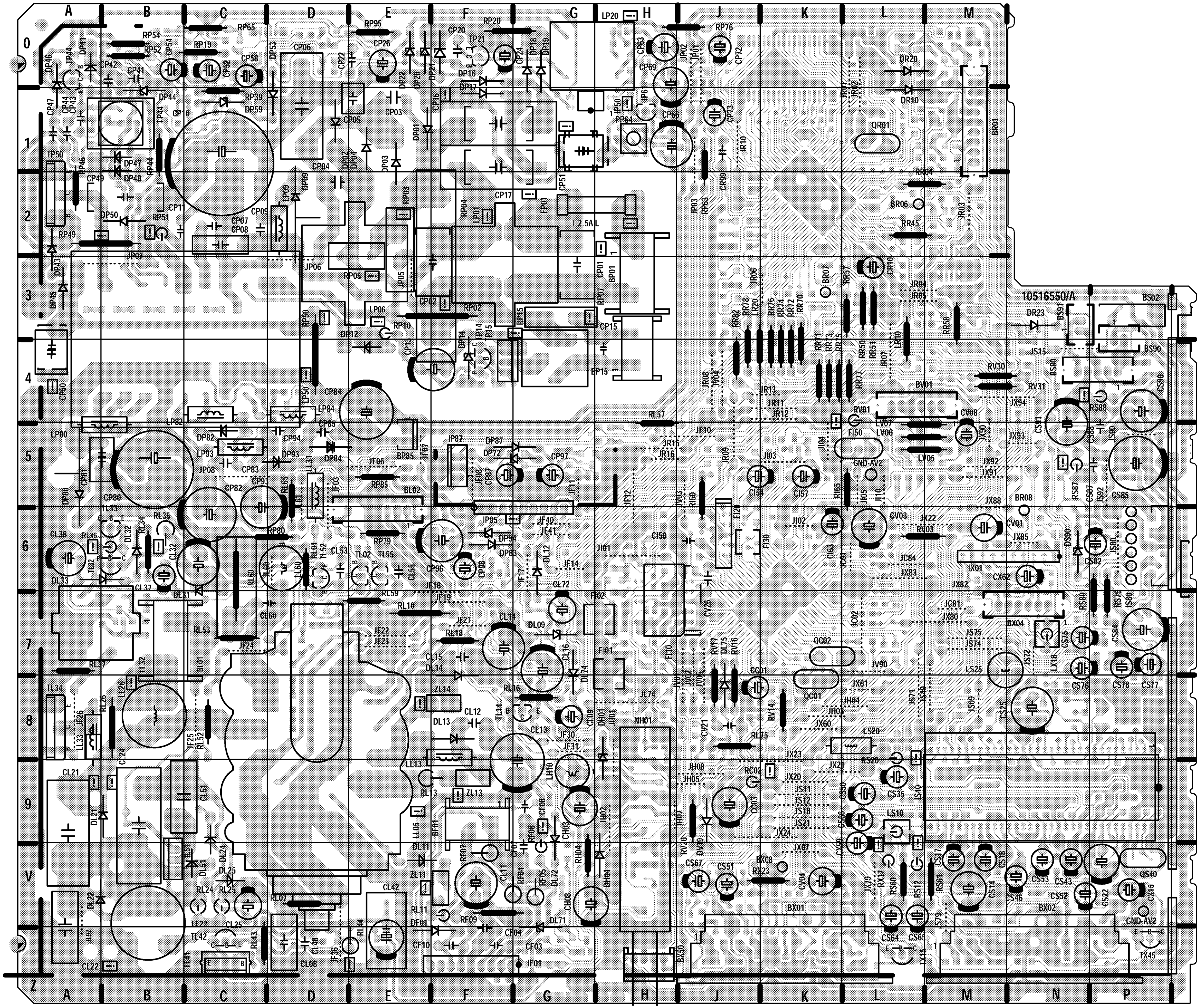
TL82

MAIN BOARD - PLATINE PRINCIPALE - CHASSIS GRUNDPLATTE - PIASTRA PRINCIPALE - PLATINA PRINCIPAL

COMPONENT SIDE - COTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI - LADO COMPONENTES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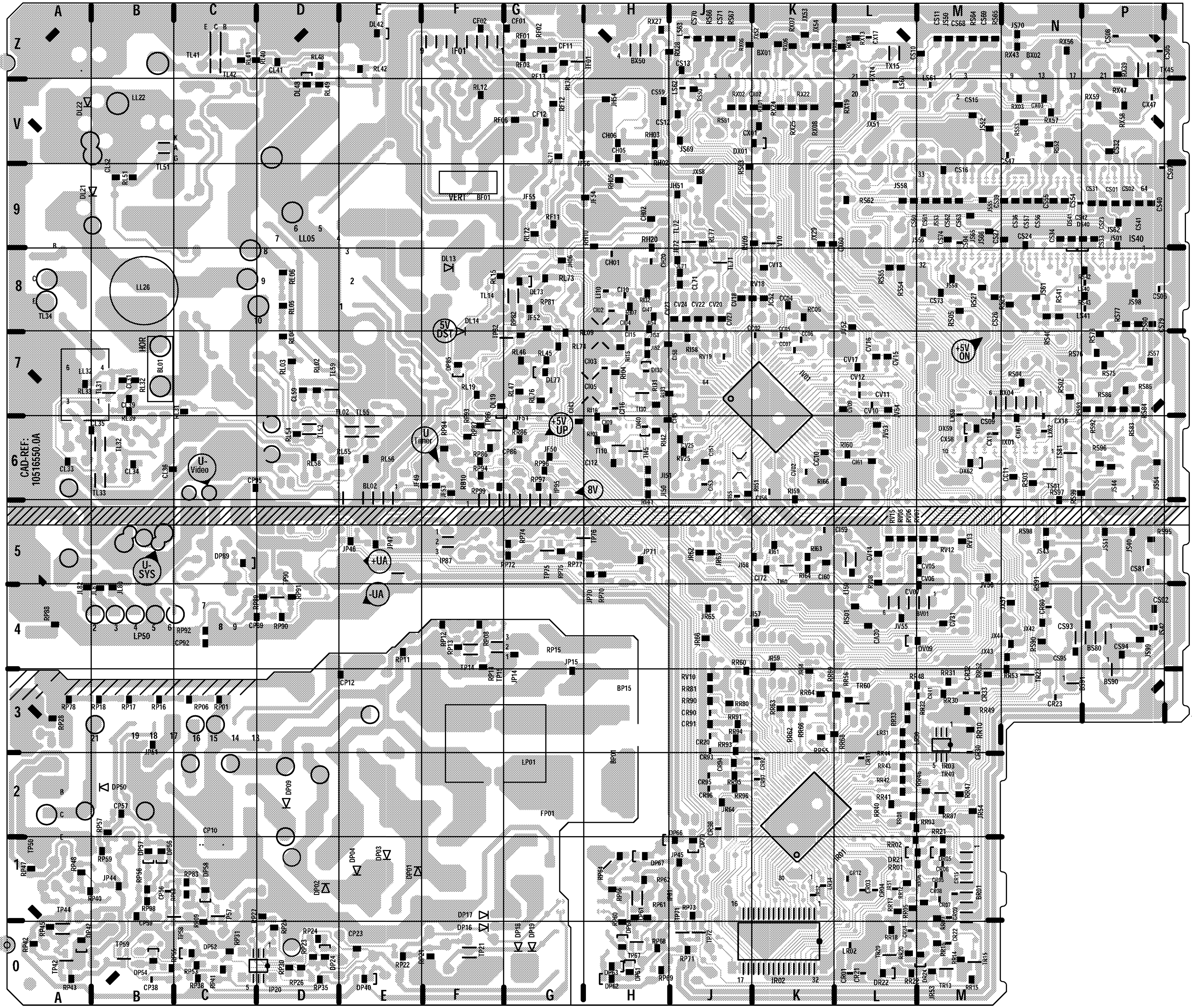
GND-AV2

SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS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+5V DST
+5V UP
+5V ON
U Timer
U-Video
U-SYS
+UA
-UA
8V
HOR
LL26
LP01
LP50

ICC17

First issue 07 / 98

PARTS LIST
LISTE PIECES DETACHEES
ERSATZTEILLISTE
LISTA PARTI DI RICAMBIO
LISTA DE PIEZAS DE REPUESTO

THOMSON

Chassis ICC17

MODULES

MAIN	**IC17F5RQ02603C**		
AVL	**SUBAVL17000**	**R**	**10614890**
CRT	**CRT17700 (PCB HYB 02)**	**R**	**10651940**
FCB	**FCB1701**	**R**	**25313060**
KDB	**KDB1706**	**R**	**25388640**

GK01	TSOP1333	25358570
IB01	TDA6107Q/N2	10659660
IF01	TDA8351	20753830
IP20	TS3702CD FLAT	10537330
IP50	TLP621 GR(D4-LF2 T)	⚠ 20827900
IP61	TL431ACZ	10538830
IP87	MC7812/CT	46007600
IP95	TDA8139	10044580
IR01	ST92R195 CUT 2.2 FLAT	10588150
IR02	IC-ROM THOMSON V3.20-0	1059455E
IR03	M24C16MN6 FLAT	25348520
IS40	MSP3410D-PP-B3/B4	10510320
IS80	TDA7269	10348790
IV01	TDA8855H FLAT	10533960
IX01	BA7604N	10539590
ZL11	MP25	⚠ 10500150
ZL13	MP63	⚠ 10472270

TB01,**TL**52, **TP**21	BF423	16003110
TB02,**TL**02,55	BF422	16003090
TF01,**TI**60, **TL**31,**TP**58,59, 67,71,76,90, **TR**60,**TS**01,81, **TV**10	BC846B SMD	16006260
TI10,30,45	DTC144EK SMD	16007030
TL14	2SC2236Y	16000220
TL32	BC337-40	45001466
TL33	MPS750	16001340
TL34,**TP**50	BUH516TH16	10401110
TL41	BD241C	16001880
TL42,**TP**14, **TX**15,45	BC546B	45001866
TL51	THYHIPWR	10576770
TL59,**TP**42,86, **TR**15	BC856B SMD	16006310
TL71	BC847C SMD	90618810
TL72	RN1401 SMD	10966100
TP15	BTB06-600C	10259910
TP44	2SA1020Y	16003740
TP57	RN2417 SMD	25423180
TP72,**TR**20	DTC113ZK SMD	10550750
TP75,82	BCR191 SMD	16006910
TP77	RN1409 SMD	20688820
TR13,23,40	BCR141 SMD	16006890
TX80,81,85,86, 88	BC847B SMD	11070770

DB04,**DP**16,17, 18,19	1N4004	44009009
DB05	1.5KE250A	25353360
DB30,31,50,51, 70,71,**DJ**20, **DL**31	BAV21	44044407
DE01	BZX55C2V7	80444120
DH01	BZX55B33	80442730
DH04,**DL**12,32, 33,72,74,75, **DP**53,**DR**20,23, **DV**19	1N4148	44009209
DI30,40	BA782S	20542050
DJ20,**DL**48, **DX**59	BAV103 SMD	10155030
DK01,**DL**09, **DP**72	BZX55B5V1/ZPD5V1 2%	44035702
DL11,24,25,41, **DP**12,41,46,47, 48	RGP10G	10459090
DL13	FUF5402	10458530
DL14	RGP15G	10272800
DL19,73,77, **DP**24,39,40,42, 52,54,56,57, 58,60,61,62, 63,67,70,85, 89,**DR**21,22,24, **DV**09	LL4148 SMD	16012450
DL21	BY228	16008370
DL22	BYW76	16009120
DL42	ZMM5,1 SMD	70446740
DL51	RGP10M	10455320
DL71	BZX55C20	30948810
DP01,02,03,04	BYW27-1000	10455390
DP06	BZW04-342	25354340
DP14	BZX55C3V3	30948790
DP20	ZPD51/BZX55C51/BZX79C51	90578110
DP21	BZX85C39	80444000
DP22	BZX55C6V8	50890650
DP43,45,50,87	RGP02-20	10472330
DP44	BZX55C3V9	80444130
DP59	BZX55C18	11073680
DP80	MUR460	16009650
DP82	FUF4005/MUR160	16009580
DP83	BAT42	16007410
DP84	MUR120	10564670
DP93	MUR420	16009630
DP94	BZX55C13	70438310
DR05	LL42 SMD	16012530
DS90	BZX55C3V6	50890640
DX86	BAS20 SMD	16012250
DX87	BZX84B8V2 SMD	25385640
GE01	TLUV5300 LED	11137650

FI10	OFWK6282K FOS	10648840
FI20	OFWK9650M FOS	10545440
FI50	5M74HZ	20338170
QC01	4M433619HZ	10087710
QC02	3M579545HZ	10542190
QR01	4M0HZ	10254300
QS40	18M432HZ	10334670

FI01	40M4HZ	20300950
FI02	31M9HZ	10552630
FI30	77M8HZ	10559760
LL22		10636390

R : RECYCLED PART
: PIECE RECYCLEE
: AUSTAUSCHTEILE
: RICAMBIO RICICLATO
: MODULO REPROCESADO

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PP64	1K0 OHM		70434550

RB01,04	1K5 OHM 5% 0,50W		10121880
RB06	220R0 OHM 5% 0,25W	⚠	15009810
RB31,51,71	560R0 OHM 10% 0,50W		10257590
RC02	1R0 OHM 5% 0,40W	⚠	13060910
RF05	1R21 OHM 1% 0,70W		13010820
RF07	220R0 OHM 1% 0,70W		10233720
RF08	68R0 OHM 5% 0,70W		15009050
RL01	45K3 OHM 1% 0,25W		15018160
RL07	6K19 OHM 1% 0,40W		15020490
RL13	0R27 OHM 5% 2,50W		10263600
RL35,**RS**87,88	4R7 OHM 5% 0,35W	⚠	10226310
RL36,**RP**10	2R2 OHM 5% 0,25W	⚠	15009870
RL43	68K1 OHM 1% 0,70W		10147740
RL44	1R0 OHM 5% 0,50W	⚠	10576360
RP04	2R7 OHM 5% 4,50W		10379110
RP15	18R0 OHM 220V PTC	⚠	41398800
RP39,52,54,95, **RR**45,**RV**03,14, 30,31	100R0 OHM 5% 0,25W		30943330
RP49	0R47 OHM 5% 2,5W	⚠	25339900
RP50	10M0 OHM 5% 0,70W	⚠	10074320
RP63	432K0 OHM 1% 0,13W		10354720
RS12	18R0 OHM 5% 0,30W	⚠	15009660
RV20	100K0 OHM 1% 0,25W		50883810
RX17	10R0 OHM 5% 0,25W	⚠	15009580

CB01	10N0F 3K0V		14036450
CL08	10N0F 5% 400V		14035870
CL12,15,55, **CP**18,21,42,85, 94	330P0F 20% 1K0V		14035270
CL21	15N0F 3.5% 1K6V		10643660
CL22	27N0F 5% 400V		10263540
CL24	440N0F 5% 250V	⚠	10525280
CL51	290N0F 5% 250V		10378450
CP01	100N0F 20% 275V	⚠	10331520
CP03,04	4N7F 1K0V		10058740
CP05	1N5F 10% 1K0V		20338740
CP10	150U0F 385V		43424800
CP11	10N0F 10% 400V		15001080
CP16,17	470N0F 20% 275V	⚠	10596570
CP20	220P0F 10% 400V		14033000
CP49	3N3F 20% 1K6V		10607950
CP50	1N0F 20% 400V	⚠	43106800
CP51	150P0F 20% 400V	⚠	20738090
CP81	1N0F 10% 500V		10546570
CP83	100P0F 20% 1K0V		14035280

LL05	DSTTDS29	⚠	10608670
LL26		⚠	10526140
LL32	DRIVER		10518110
LP01		⚠	10261530
LP20	DRIVER	⚠	10554410
LP44	DRIVER		10561800
LP50	SMT41	⚠	10537860

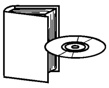
OTHER PARTS
AUTRES PIECES
SONSTIGE TEILE
ALTRE PARTI
OTRAS PIEZAS

BB05	CATHODE RAY TUBE SOCKET SUPPORT TUBE CATHODIQUE BILDROEHRENFASSUNG SUPPORTO TUBO CATODICO SOPORTE T.R.C	⚠	80298800
BJ10	CINCH SOCKET PRISE CINCH CINCH-BUCHSE PRESA CINCH TOMA CINCH		10037440
BJ11	SVHS SOCKET PRISE SVHS S-VHS-BUCHSE PRESA SVHS TOMA SVHS		20392900
BQ12	JACK SOCKET PRISE JACK BUCHSE PRESA JACK TOMA JACK		10539510
BX01,02	SCART SOCKET PRISE PERITEL EURO-AV-BUCHSE EUROPRESA NORMALIZZATA EUROCONECTOR		90617260
CH200	ON/OFF SWITCH CONTACTEUR MARCHE/ARRET EIN-AUS SCHALTER CONTATTORE ACCESO/SPENTO CONTACTOR MARCHA/PARADA	⚠	10276500
FP01	2A5T TIME-LAG FUSE 2A5T FUSIBLE TEMPORISE 2A5T THERMISCHE SICHERUNG 2A5T FUSIBILE TEMPORIZZATO 2A5T FUSIBLE TEMPORIZADO	⚠	10246750
NH01	CTT5010 UHF/VHF TUNER CTT5010 TETE UHF/VHF CTT5010 UHF/VHF TUNER CTT5010 TUNER UHF/VHF CTT5010 SINTONIZADOR UHF/VHF		20812280
SK01,02,03,04	MICROSWITCH MICRO CONTACTEUR MIKROSCHALTER MICROINTERRUTTORE MICROCONTACTOR		30011100

EQUIPMENT/PRESENTATION
EQUIPEMENT/PRESENTATION
AUSSTATTUNG/GEHAEUSE
PARTI VARIE
EQUIPO/PRESENTACION

FRONT PANEL FACADE FRONTPLATTE PANNELLO FRONTALE PANEL FRONTAL		25346170
REAR PANEL DOS RUECKWAND PANNELLO POSTERIORE TAPA POSTERIOR	⚠	25433840
INFRARED WINDOW GLACE INFRAROUGE INFRAROT FENSTER VETRO INFRAROSSO CRISTAL INFRARROJO		25373830
LOGO THOMSON LOGO THOMSON SCHRIFTZUG THOMSON MARCHIO THOMSON LOGOTIPO THOMSON		25367520
CHASSIS SUPPORT SUPPORT CHASSIS CHASSIS HALTER SUPPORTO CHASSIS SOPORTE CHASSIS		25296750
COVER JACK SOCKET CACHE PRISE JACK ABDECKUNG BUCHSE COPERCHIO PRESA JACK CUBIERTA TOMA JACK		25298150
8R OHM 15W LOUDSPEAKER 60X125 8R OHM 15W HAUT PARLEUR 60X125 8R OHM 15W LAUTSPRECHER 60X125 8R OHM 15W ALTOPARLANTE 60X125 8R OHM 15W ALTAVOZ 60X125		10467060
ON/OFF BUTTON TOUCHE MARCHE/ARRET EIN-AUS TASTE TASTO ACCESO/SPENTO TECLA MARCHA/PARADA		25309090
BUTTON ASSY ENSEMBLE DE TOUCHES TASTENEINHEIT ASSIEME TASTI CONJUNTO DE TECLAS		25312630
POWER SUPPLY LEAD CORDON D'ALIMENTATION NETZKABEL CAVO DI ALIMENTAZIONE CABLE DE ALIMENTACION	⚠	10260880
W66EJU023X015 CATHODE RAY TUBE W66EJU023X015 TUBE CATHODIQUE W66EJU023X015 FARBBILDROEHRE W66EJU023X015 TUBO CATODICO W66EJU023X015 T.R.C	⚠	10647170
DEGAUSSING COIL BOBINE DE DEMAGNETISATION ENTMAGNETISIERUNGSSPULE BOBINA DI SMAGNETIZZAZIONE BOBINA DE DESIMANTACION	⚠	47320181
RCTMB100 REMOTE CONTROL RCTMB100 TELECOMMANDE RCTMB100 FERNBEDIENUNG RCTMB100 TELECOMANDO RCTMB100 TELEMANDO		20879230
FOLDING BOX EMBALLAGE CARTON KARTON IMBALLAGGIO CARTONE EMBALAJE CARTON		25443870

FITTING DOWNER CALE INFERIEURE POLSTER UNTEN DISTANZIATORE INFERIORE CALZO INFERIOR	25348810
FITTING UPPER CALE SUPERIEURE POLSTER OBEN DISTANZIATORE SUPERIORE CALZO SUPERIOR	25348820



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CDROM ICC17 CDROM ICC17 CDROM ICC17 CDROM ICC17 CDROM ICC17	35065140

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THOMSON MULTI MEDIA

LES PROGRAMMES

- LA FORMATION PARATECHNIQUE
- LES PRODUITS HIGH TECH
- FORMATION VENDEURS
- MICRO INFORMATIQUE
- JOURNÉES FORMATION SERVICE
- MAINTENANCE 1er DEGRÉ D'INTERVENTION
- LES STAGES TECHNIQUES
  - Techniques vidéo
  - Techniques Télévision

- NOS COORDONNÉES
- RÉSUMÉS DE COURS
- CASSETTES D'AIDE À LA MAINTENANCE
- BULLETIN D'INSCRIPTION
- ACCÈS À NOS LOCAUX
- HOTELS

QUITTER

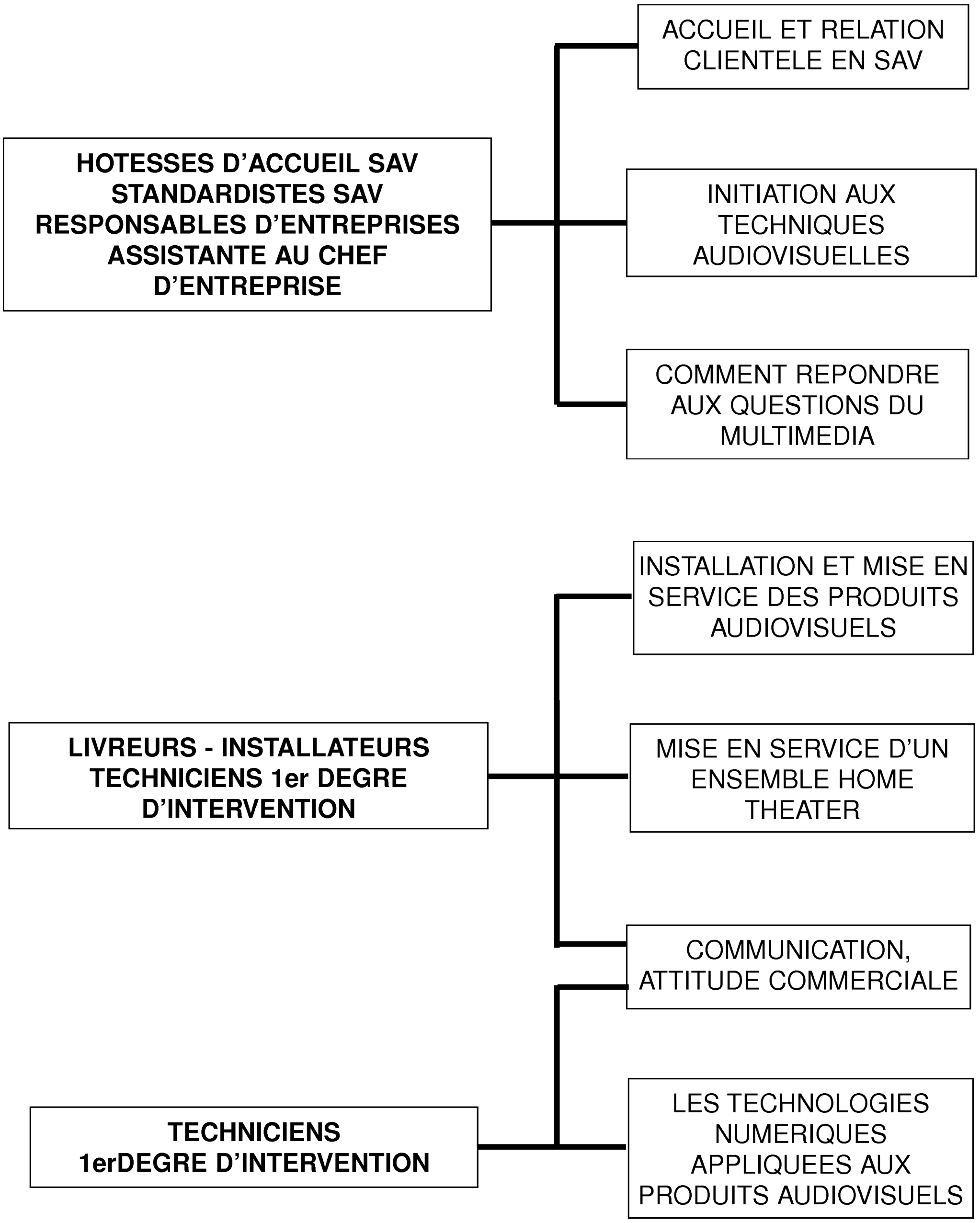
100Hertz
motion mastering
VIRTUAL DOLBY SURROUND
NAVILIGHT system
DIGITAL dts SURROUND
LYRa

2000

CENTRE DE FORMATION

THOMSON multimedia

LA CHAÎNE du SERVICE



HOTESSES D'ACCUEIL SAV
STANDARDISTES SAV
RESPONSABLES D'ENTREPRISES
ASSISTANTE AU CHEF D'ENTREPRISE

- ACCUEIL ET RELATION CLIENTELE EN SAV
- INITIATION AUX TECHNIQUES AUDIOVISUELLES
- COMMENT REPONDRE AUX QUESTIONS DU MULTIMEDIA

LIVREURS - INSTALLATEURS
TECHNICIENS 1er DEGRE D'INTERVENTION

- INSTALLATION ET MISE EN SERVICE DES PRODUITS AUDIOVISUELS
- MISE EN SERVICE D'UN ENSEMBLE HOME THEATER
- COMMUNICATION, ATTITUDE COMMERCIALE

TECHNICIENS
1erDEGRE D'INTERVENTION

- COMMUNICATION, ATTITUDE COMMERCIALE
- LES TECHNOLOGIES NUMERIQUES APPLIQUEES AUX PRODUITS AUDIOVISUELS

RESPONSABLES D'ENTREPRISES
DIRECTEURS SAV
TECHNICIENS 1er DEGRE D'INTERVENTION
TECHNICIENS D'ATELIER

- LA TECHNOLOGIE DES ECRANS PLASMA
- LA TECHNOLOGIE DES LECTEURS DE DISQUES NUMERIQUES DVD
- LES LECTEURS AUDIO FORMAT MP3
- LES CAMESCOPES NUMERIQUES DVCR
- LE HOME THEATER
- LES TECHNOLOGIES EGP A L'ERE DE L'INTERACTIVITE

LES FORMATIONS VENDEURS

VENDEURS
TECHNICO-COMMERCIAUX
RESPONSABLES D'ENTREPRISES
ASSISTANT(E) AU CHEF D'ENTREPRISE

- CONNAÎTRE LES PRODUITS AUDIOVISUELS POUR MIEUX LES VENDRE *MODULE I*
- CONNAÎTRE LES PRODUITS AUDIOVISUELS POUR MIEUX LES VENDRE MODULE II
- CONNAÎTRE LA PHOTO NUMÉRIQUE POUR MIEUX LA VENDRE
- CONNAÎTRE LES PRODUITS INFORMATIQUES POUR MIEUX LES VENDRE

SOMMAIRE

MICRO INFORMATIQUE

MAINTENANCE

- CONFIGURATION ET MAINTENANCE DES PC
  - INSTALLATION DE PÉRIPHÉRIQUES MULTIMEDIA ET RÉSEAUX

SYSTEME D'EXPLOITATION

- WINDOWS 98 AVANCÉ - LINUX

INTERNET

- INITIATION A INTERNET - CRÉATION DE SITE WEB

ASSISTANCE A LA MAINTENANCE, CHÂSSIS VIDEO R4000 / R5000

ASSISTANCE A LA MAINTENANCE, CHÂSSIS TV ICC9

ASSISTANCE A LA MAINTENANCE, CHÂSSIS TV TX91-91G / TX92-92F

MAINTENANCE
1er degré D'INTERVENTION

MAINTENANCE
1er DEGRE D'INTERVENTION,
CHÂSSIS TV ICC10/11

MAINTENANCE
1er DEGRE D'INTERVENTION,
CHÂSSIS TV ICC17

MAINTENANCE
1er DEGRE D'INTERVENTION,
CHÂSSIS TV ICC19

MAINTENANCE
1er DEGRE D'INTERVENTION,
CHÂSSIS TV ICC20

SOMMAIRE

LES TECHNIQUES VIDÉO

LECTEURS DVD

PRINCIPE ET MAINTENANCE DES LECTEURS DVD DTH 1000/2000/2500

PRINCIPE ET MAINTENANCE DES LECTEURS DVD DTH 3300/3600/3700

MAGNÉTOSCOPES

PRINCIPE ET MAINTENANCE DES MAGNÉTOSCOPES VHS

ETUDE APPLIQUÉE DES MAGNÉTOSCOPES, CHÂSSIS R6000 ET R7000

ETUDE APPLIQUÉE DES MAGNÉTOSCOPES, CHÂSSIS R8000

ETUDE APPLIQUÉE DES MAGNÉTOSCOPES, CHÂSSIS R9000

EVOLUTION DES CHÂSSIS R7000
DÉPANNAGE DIRIGÉ DES CHÂSSIS R6000/R7000

CAMESCOPES

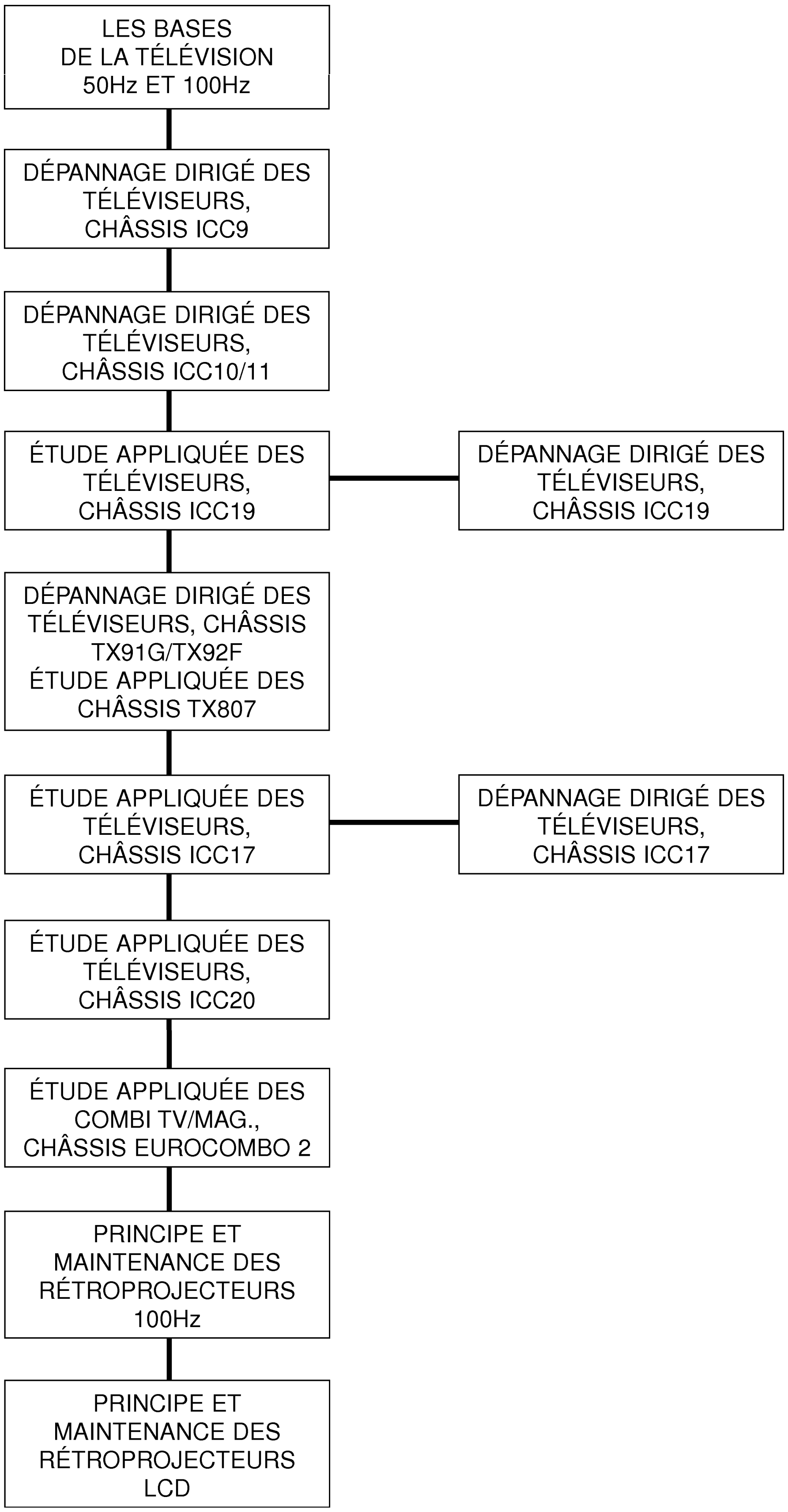
LES BASES DES CAMESCOPES FORMAT VHS-C ET VIDÉO 8

LA MAINTENANCE DES CAMESCOPES VHS-C, CHÂSSIS M10, M11 ET M12

LA MAINTENANCE DES CAMESCOPES DV, CHÂSSIS VMD2, VMD3 ET VMD8

SOMMAIRE

LES TECHNIQUES TÉLÉVISION



LES BASES DE LA TÉLÉVISION 50Hz ET 100Hz

DÉPANNAGE DIRIGÉ DES TÉLÉVISEURS, CHÂSSIS ICC9

DÉPANNAGE DIRIGÉ DES TÉLÉVISEURS, CHÂSSIS ICC10/11

ÉTUDE APPLIQUÉE DES TÉLÉVISEURS, CHÂSSIS ICC19

DÉPANNAGE DIRIGÉ DES TÉLÉVISEURS, CHÂSSIS ICC19

DÉPANNAGE DIRIGÉ DES TÉLÉVISEURS, CHÂSSIS TX91G/TX92F
ÉTUDE APPLIQUÉE DES CHÂSSIS TX807

ÉTUDE APPLIQUÉE DES TÉLÉVISEURS, CHÂSSIS ICC17

DÉPANNAGE DIRIGÉ DES TÉLÉVISEURS, CHÂSSIS ICC17

ÉTUDE APPLIQUÉE DES TÉLÉVISEURS, CHÂSSIS ICC20

ÉTUDE APPLIQUÉE DES COMBI TV/MAG., CHÂSSIS EUROCOMBO 2

PRINCIPE ET MAINTENANCE DES RÉTROPROJECTEURS 100Hz

PRINCIPE ET MAINTENANCE DES RÉTROPROJECTEURS LCD